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1802
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STANDARD I.

ADDITION.

	(a)	(b)	(c)	(d)
1	305	982	934	907
	29	421	916	89
	18	602	957	873
	108	886	30	986
	<hr/>	<hr/>	<hr/>	<hr/>
2	(a)	(b)	(c)	(d)
	42	141	436	941
	130	23	10	473
	74	264	273	964
	214	77	182	422
	<hr/>	<hr/>	<hr/>	<hr/>
3	(a)	(b)	(c)	(d)
	237	26	427	243
	64	141	938	346
	427	37	527	52
	74	103	963	71
	<hr/>	<hr/>	<hr/>	<hr/>
4	(a)	(b)	(c)	(d)
	743	942	13	672
	924	681	647	41
	968	936	243	324
	165	278	907	764
	<hr/>	<hr/>	<hr/>	<hr/>

- 5 Add together,—seven hundred and one; ninety-eight;
four hundred; seven hundred and thirty-eight.

	(a)	(b)	(c)	(d)
6	137	32	837	472
	63	143	69	426
	28	67	54	947
	317	284	125	82
	<u>59</u>	<u>204</u>	<u>320</u>	<u>928</u>

	(a)	(b)	(c)	(d)
7	341	926	342	416
	246	432	27	28
	227	78	34	947
	204	802	120	90
	<u>306</u>	<u>22</u>	<u>540</u>	<u>626</u>

	(a)	(b)	(c)	(d)
8	923	402	91	724
	42	49	167	638
	637	128	45	944
	964	637	627	27
	<u>36</u>	<u>306</u>	<u>313</u>	<u>467</u>

	(a)	(b)	(c)	(d)
9	926	542	904	427
	37	631	27	938
	567	52	248	975
	27	137	36	36
	<u>748</u>	<u>61</u>	<u>388</u>	<u>325</u>

- 10 Add together,—eight hundred and ninety; nineteen; seven hundred and three; forty-five; two hundred and sixty-two.

SIMPLE ADDITION.

3

	(a)	(b)	(c)	(d)
11	798	1000	868	622
	47	95	98	919
	919	818	910	79
	87	367	1000	68
	95	566	888	285
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
12	857	407	913	873
	86	98	498	89
	1000	769	92	916
	876	699	559	256
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
13	98	86	679	89
	1000	949	591	989
	842	874	1000	493
	96	98	49	1000
	314	875	572	248
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
14	713	908	398	923
	398	79	809	1000
	1000	1000	78	809
	98	887	959	98
	312	727	584	889
	<hr/>	<hr/>	<hr/>	<hr/>

- 15 Find the sum of,—four hundred and fifty-nine; eighty; one thousand; five hundred and three; seven hundred and ninety-five.

	(a)	(b)	(c)	(d)
16	879	797	1000	796
	98	1000	86	88
	1000	897	968	895
	976	86	496	539
	279	731	250	113
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
17	1000	796	919	708
	97	95	1000	99
	987	998	790	936
	898	807	807	1000
	529	428	490	669
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
18	987	1000	819	914
	716	89	98	98
	69	719	786	879
	348	89	99	913
	735	624	422	811
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
19	798	1000	797	599
	819	79	807	880
	900	907	93	78
	88	378	319	799
	915	643	55	858
	<hr/>	<hr/>	<hr/>	<hr/>

- 20 Find the sum of,—seven hundred and thirteen; ninety-five; one hundred and nine; one thousand; three hundred and seven.

SIMPLE ADDITION.

5

	(a)	(b)	(c)	(d)
21	398	996	472	864
	907	708	63	27
	89	95	754	854
	975	986	186	728
	<u>737</u>	<u>934</u>	<u>453</u>	<u>391</u>

	(a)	(b)	(c)	(d)
22	513	41	982	678
	72	676	376	224
	164	82	41	760
	897	567	819	36
	<u>560</u>	<u>607</u>	<u>384</u>	<u>22</u>

	(a)	(b)	(c)	(d)
23	729	505	61	478
	684	68	564	346
	72	493	583	28
	481	274	76	191
	<u>957</u>	<u>461</u>	<u>238</u>	<u>965</u>

	(a)	(b)	(c)	(d)
24	973	578	922	186
	464	36	88	279
	78	879	999	56
	479	830	555	987
	<u>410</u>	<u>684</u>	<u>309</u>	<u>302</u>

25 Add together,—one thousand; ninety-three; seven hundred and nine; fifty-eight; one hundred and ninety-three.

	(a)	(b)	(c)	(d)
26	2525	9265	567	1428
	256	47	1428	9378
	1462	9413	6370	94
	1628	641	36	2274
	439	1056	7602	878
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
27	6274	7218	2423	827
	8013	8421	6825	4105
	672	3765	747	204
	4136	741	283	9670
	9480	5056	9029	676
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
28	3435	5376	9136	6257
	2987	5428	4827	3864
	46	627	191	9537
	520	4280	5467	1682
	6072	9319	414	72
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
29	809	7630	964	4102
	2642	579	6291	9976
	976	6782	488	39
	38	65	72	9684
	163	4053	9196	6404
	<hr/>	<hr/>	<hr/>	<hr/>

- 30 Add together,—five hundred and twenty-three; eighty-nine; four hundred and ninety-six; eight hundred and thirty; three hundred and four.

	(a)	(b)	(c)	(d)
31	8241	5286	4123	6716
	6376	5342	8014	3241
	8824	2794	678	568
	3567	567	3927	7402
	92	5066	3680	8278
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
32	7628	3428	3328	9537
	4401	7127	1430	2814
	76	83	76	27
	276	4641	854	4684
	4635	8023	6616	939
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
33	3402	8279	1437	9462
	4696	3328	2874	536
	27	1413	350	567
	9436	76	9679	9231
	8703	9207	160	3434
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
34	1762	9847	6143	567
	9426	3609	76	4023
	89	26	8173	674
	754	9084	64	1643
	5070	4562	764	4416
	<hr/>	<hr/>	<hr/>	<hr/>

- 35 Add together,—eight hundred and ninety-seven; nine hundred and nineteen; one thousand; eighty-nine; eight hundred and twenty-three.

	(a)	(b)	(c)	(d)
36	8324	259	9153	476
	74	314	86	24
	304	9046	3427	3128
	3413	37	9428	462
	918	9534	3261	6144
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
37	787	9375	401	123
	42	682	4027	50
	4237	41	39	8149
	614	789	864	206
	6175	7277	9197	9473
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
38	365	6427	426	3682
	4263	368	75	497
	654	241	9283	5064
	28	17	74	838
	5302	5269	5146	847
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
39	5753	362	609	73
	6742	47	473	562
	74	8642	6002	14
	256	736	47	8628
	84	447	304	91
	214	694	8020	4305
	<hr/>	<hr/>	<hr/>	<hr/>

- 40 Add together,—eighty-five; seven hundred and ninety-eight; nine hundred and fifteen; eight hundred and nine; five hundred and forty-four.

SIMPLE ADDITION.

9

	(a)	(b)	(c)	(d)
41	235	416	936	537
	8642	7284	27	86
	137	13	3092	427
	46	642	364	6412
	<u>5980</u>	<u>3652</u>	<u>9604</u>	<u>5598</u>

	(a)	(b)	(c)	(d)
42	467	365	188	7419
	8891	4301	77	79
	537	671	695	1740
	6041	448	4026	538
	<u>175</u>	<u>4530</u>	<u>6319</u>	<u>944</u>

	(a)	(b)	(c)	(d)
43	682	7164	8254	421
	9736	273	127	5273
	427	69	36	641
	24	473	919	27
	<u>8204</u>	<u>9023</u>	<u>3868</u>	<u>8750</u>

	(a)	(b)	(c)	(d)
44	425	9362	536	274
	37	413	7789	3625
	9284	76	74	48
	198	284	760	782
	<u>7320</u>	<u>8020</u>	<u>4523</u>	<u>9573</u>

- 45 Add together,—eighty-two; nine hundred and seventeen;
one thousand; eighty-three; eight hundred and nine.

	(a)	(b)	(c)	(d)
46	372	4627	410	537
	4137	143	6908	4412
	164	62	642	1413
	26	237	17	87
	<u>8721</u>	<u>5048</u>	<u>6330</u>	<u>9851</u>

	(a)	(b)	(c)	(d)
47	548	1379	8248	472
	9372	9468	9679	8864
	641	42	736	528
	72	9625	42	94
	<u>9789</u>	<u>736</u>	<u>998</u>	<u>7306</u>

	(a)	(b)	(c)	(d)
48	365	537	7172	7856
	9298	8609	419	642
	904	447	376	374
	73	28	48	27
	<u>7533</u>	<u>4681</u>	<u>9240</u>	<u>6574</u>

	(a)	(b)	(c)	(d)
49	4565	6284	284	6037
	937	7137	3784	602
	64	64	7297	84
	287	863	64	8736
	<u>5102</u>	<u>234</u>	<u>74</u>	<u>887</u>

- 50 Find the sum of,—eight hundred and eighty; nineteen; one thousand; three hundred and ninety-nine; five hundred and sixty-six.

SIMPLE ADDITION.

11

	(a)	(b)	(c)	(d)
51	437	8641	5678	6321
	7541	279	420	3417
	73	5364	93	389
	4654	67	5664	64
	923	653	368	6137
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
52	7364	9642	8437	5623
	2289	573	26	410
	14	674	4478	3099
	760	82	91	673
	923	3052	632	339
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
53	4287	8436	2156	4237
	365	725	78	9157
	57	48	9436	48
	7738	936	789	816
	784	7055	943	773
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
54	273	736	1567	848
	6029	4275	9236	9374
	5407	7841	9417	26
	74	573	62	9413
	972	85	546	42
	<hr/>	<hr/>	<hr/>	<hr/>

55 Find the sum of,—eight hundred and seven; ninety-eight; one thousand; eight hundred and ninety-six; eight hundred and nine.

SUBTRACTION.

	(a)	(b)	(c)	(d)
1	From 896	798	948	759
	Take 553	554	821	128
	<u> </u>	<u> </u>	<u> </u>	<u> </u>
2	(a)	(b)	(c)	(d)
	689	978	916	738
	157	437	114	512
	<u> </u>	<u> </u>	<u> </u>	<u> </u>
3	(a)	(b)	(c)	(d)
	714	913	604	829
	533	642	171	378
	<u> </u>	<u> </u>	<u> </u>	<u> </u>
4	(a)	(b)	(c)	(d)
	811	932	870	435
	504	508	365	218
	<u> </u>	<u> </u>	<u> </u>	<u> </u>
5	(a)	(b)	(c)	(d)
	840	753	430	950
	218	239	204	607
	<u> </u>	<u> </u>	<u> </u>	<u> </u>
6	(a)	(b)	(c)	(d)
	517	833	953	920
	309	418	709	109
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

7 Take four hundred and sixty-one from eight hundred and thirteen.

SIMPLE SUBTRACTION.

13.

	(a)	(b)	(c)	(d)
8	From 652	811	340	908
	Take 386	702	105	196
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
9	673	575	814	910
	159	358	408	207
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
10	570	911	731	760
	335	109	109	237
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
11	860	514	840	682
	139	108	317	258
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
12	570	961	543	916
	155	690	209	96
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
13	930	754	670	860
	119	393	147	427
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

14 From nine hundred and fifteen take seven hundred and eighty-eight.

	(a)	(b)	(c)	(d)
15 From 1000		813	302	901
Take 576	<u>576</u>	<u>659</u>	<u>58</u>	<u>684</u>

	(a)	(b)	(c)	(d)
16 702	702	1000	701	590
89	<u>89</u>	<u>99</u>	<u>178</u>	<u>499</u>

	(a)	(b)	(c)	(d)
17 1000	1000	1000	919	1000
279	<u>279</u>	<u>666</u>	<u>279</u>	<u>288</u>

	(a)	(b)	(c)	(d)
18 901	901	716	1000	715
279	<u>279</u>	<u>175</u>	<u>198</u>	<u>282</u>

	(a)	(b)	(c)	(d)
19 1000	1000	712	1000	805
468	<u>468</u>	<u>369</u>	<u>738</u>	<u>669</u>

	(a)	(b)	(c)	(d)
20 720	720	1000	913	951
539	<u>539</u>	<u>288</u>	<u>786</u>	<u>689</u>

21 Take one hundred and ninety-eight from one thousand.

SIMPLE SUBTRACTION.

15

	(a)	(b)	(c)	(d)
22	From 813	1000	1000	493
	Take 659	765	891	186
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
23	414	315	1000	1000
	287	179	747	981
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
24	1000	708	1000	801
	918	689	387	773
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
25	713	1000	1000	1000
	289	783	945	927
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
26	1301	1900	1410	1301
	85	891	1067	985
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
27	1305	1501	1601	1404
	89	888	889	899
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

28 Take ninety-seven from three hundred and fourteen.

	(a)	(b)	(c)	(d)
29	From 1304	1210	1011	1502
	Take 898	841	299	898
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
30	1402	1105	1010	1315
	789	789	289	999
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
31	Take 808	Take 379	Take 987	Take 906
	From 1115	From 1001	From 1501	From 1312
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
32	Take 893	Take 589	Take 976	Take 689
	From 1011	From 1004	From 1801	From 1122
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
33	Take 498	Take 879	Take 999	Take 899
	From 1120	From 1006	From 1900	From 1080
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	(a)	(b)	(c)	(d)
34	Take 849	Take 998	Take 995	Take 799
	From 1003	From 1305	From 1500	From 1070
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

35 From one thousand take ninety-nine.

STANDARD II.

ADDITION.

	(a)	(b)	(c)	(d)
1	793	849	908	895
	8019	9108	7897	9013
	95	18950	49	80807
	90108	96	70490	78
	19049	8268	2729	60526
	<hr/>	<hr/>	<hr/>	<hr/>
2	(a)	(b)	(c)	(d)
	8019	7905	9028	7806
	987	859	984	798
	95098	89909	7095	80905
	87907	30591	57709	9097
	3093	7457	70797	20097
	<hr/>	<hr/>	<hr/>	<hr/>
3	(a)	(b)	(c)	(d)
	45106	79185	69097	84798
	897	809	809	9898
	9789	28067	9078	84684
	99075	4989	25968	983
	8395	32086	86858	985
	<hr/>	<hr/>	<hr/>	<hr/>
4	(a)	(b)	(c)	(d)
	89099	25915	81975	79867
	987	80879	8996	8986
	8760	799	68078	50778
	85988	18876	847	915
	7985	658	50859	49788
	<hr/>	<hr/>	<hr/>	<hr/>

- 5** Add together,—two thousand and ninety-seven; eight hundred and nine; one thousand and ninety-eight; one thousand five hundred and eighty-seven.

	(a)	(b)	(c)	(d)
6	95567	80907	89495	78875
	87896	7896	868	9087
	4034	73864	8908	87098
	30986	9987	10495	765
	7923	148	84907	77896
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
7	70905	73485	91308	35987
	878	897	896	8099
	9787	9785	9087	88705
	76819	34989	44789	19098
	33575	72852	8155	42739
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
8	81358	85295	96785	69085
	8987	9097	7859	50997
	87836	78905	80908	7079
	45948	89	795	895
	60894	7759	6696	8053
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
9	8197	40895	8978	49197
	95978	8778	90908	31876
	8799	91099	7794	986
	908	34156	85908	4039
	78955	69496	86782	58966
	<hr/>	<hr/>	<hr/>	<hr/>

- 10 Add together,—fifty thousand nine hundred and three; nine thousand and eighty-seven; eighty thousand and ninety; four hundred and five; forty thousand five hundred and seventy.

SIMPLE ADDITION.

19

	(a)	(b)	(c)	(d)
11	19640	48763	98643	78394
	8376	9876	7620	9621
	54790	75460	54086	18769
	737735	378193	761	472
		854	740431	396890
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
12	98643	48601	186438	364083
	7852	7868	76865	79854
	976	78403	58963	107675
	108481	6746	6749	3601
	496850	562013	383589	490148
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
13	49876	47968	674832	760142
	3874	200894	96401	68479
	97621	7953	7628	3857
	794	42106	549	26038
	749358	242782	22843	42908
	<hr/>	<hr/>	<hr/>	<hr/>

	(a)	(b)	(c)	(d)
14	486301	486301	562064	98760
	76548	76235	76853	546203
	3291	168420	8920	67547
	104671	9658	65483	958
	50622	61711	23108	106695
	<hr/>	<hr/>	<hr/>	<hr/>

15 Add together,—eighty thousand five hundred and one; nine thousand and ten; six hundred and nine; four thousand and seventy; fifty thousand eight hundred and forty-seven.

	(a)	(b)	(c)	(d)
16	46201	48620	762081	98648
	7648	796482	74392	61572
	510687	60573	9765	3854
	62953	2954	43576	324763
	<u>175142</u>	<u>1903</u>	<u>11628</u>	<u>115488</u>

	(a)	(b)	(c)	(d)
17	76428	396049	468321	384676
	1576	78586	97685	71854
	13904	3497	382763	9768
	60839	62954	6548	35925
	<u>544299</u>	<u>72267</u>	<u>495386</u>	<u>145105</u>

	(a)	(b)	(c)	(d)
18	468976	462047	684796	98643
	96543	87964	38945	384752
	2680	391872	9728	9540
	79469	915	60539	62395
	<u>1505</u>	<u>153814</u>	<u>27397</u>	<u>48797</u>

	(a)	(b)	(c)	(d)
19	49607	84397	48627	69557
	687432	320974	284976	98763
	75483	69382	65483	247458
	9876	7659	7628	6746
	<u>79233</u>	<u>161090</u>	<u>327490</u>	<u>380080</u>

- 20 Find the sum of,—one hundred thousand; ninety-eight thousand and forty-three; eight thousand nine hundred and seven; eight hundred and eighty-six; four hundred and forty-four.

SIMPLE ADDITION.

21

	(a)	(b)	(c)	(d)
21	98460	41032	96014	98437
	105436	658709	558463	6985
	7582	62348	87528	21846
	976	7953	5467	375690
	<u>320051</u>	<u>41274</u>	<u>162736</u>	<u>137574</u>

	(a)	(b)	(c)	(d)
22	467219	389165	564307	683514
	86532	78698	98762	79398
	7165	4982	7654	8576
	49762	32576	89583	62583
	<u>125759</u>	<u>98904</u>	<u>60298</u>	<u>67353</u>

	(a)	(b)	(c)	(d)
23	96743	97460	76491	68432
	7489	3691	3567	6789
	38936	14823	4826	4321
	3567	1967	45238	25432
	<u>25374</u>	<u>267</u>	<u>6284</u>	<u>4063</u>

	(a)	(b)	(c)	(d)
24	46399	65432	27432	16498
	4567	6789	4987	762
	3276	4331	64	3456
	51384	567	4573	5267
	<u>3609</u>	<u>50098</u>	<u>53</u>	<u>20225</u>

25 Add together,—eighty thousand one hundred and four; nine thousand eight hundred and six; one hundred thousand; forty-five thousand eight hundred and ninety-seven; forty-four thousand one hundred and ninety-three.

	(a)	(b)	(c)	(d)
26	726834	976959	565437	428964
	609738	88429	938496	73649
	64	736	987284	2897
	2986	850427	93	37462
	539659	999	8924	89716
	22638	4672	302639	12885
	<hr/>	<hr/>	<hr/>	<hr/>
	(a)	(b)	(c)	(d)
27	826473	564279	382496	728469
	960274	905384	997639	4637
	689	62795	4625	48964
	7349	6543	98697	98279
	89769	937456	842647	960978
	97771	396787	123078	62985
	<hr/>	<hr/>	<hr/>	<hr/>
	(a)	(b)	(c)	(d)
28	527899	824891	567899	782689
	908796	964378	486490	69897
	42735	7869	7638	462873
	904289	542738	94396	357245
	64378	9999	976427	649
	354722	252630	39987	48169
	<hr/>	<hr/>	<hr/>	<hr/>
	(a)	(b)	(c)	(d)
29	678969	837649	643829	564289
	705428	129897	756438	997936
	483976	8965	9976	987
	4289	79369	394896	6459
	473864	842649	2741	327986
	5465	921003	6441	75767
	<hr/>	<hr/>	<hr/>	<hr/>

- 30 Add together,—four hundred and ninety; eighty-four thousand five hundred and nine; nine thousand nine hundred and ninety; ninety thousand and eighty-seven; one hundred thousand; thirty-nine thousand and eighty-eight.

SUBTRACTION.

		(a)	(b)	(c)	(d)
1	From	70032	50080	60440	46830
	Take	32815	5789	39594	793

		(a)	(b)	(c)	(d)
2		64301	13031	31002	63042
		35895	249	19868	25807

		(a)	(b)	(c)	(d)
3		44801	62013	45320	120314
		7665	42931	34816	74241

		(a)	(b)	(b)	(d)
4		62031	60135	32481	37641
		16012	10103	3958	9307

		(a)	(b)	(c)	(d)
5		39804	76041	74021	62801
		20497	38815	777	25665

		(a)	(b)	(c)	(d)
6		62401	76012	62013	38421
		42168	32648	15796	10312

		(a)	(b)	(c)	(d)
7		349806	762091	184610	602304
		231769	355883	75384	556195

- 8 Take sixty-one thousand seven hundred and five from eighty-one thousand and twelve.

		(a)	(b)	(c)	(d)
9	From	643201	703604	498821	640132
	Take	<u>219065</u>	<u>495297</u>	<u>388915</u>	<u>233825</u>

		(a)	(b)	(c)	(d)
10		638406	620701	627402	203406
		<u>282270</u>	<u>69395</u>	<u>203266</u>	<u>8769</u>

		(a)	(b)	(c)	(d)
11		320601	640260	760240	376042
		<u>37594</u>	<u>531151</u>	<u>353717</u>	<u>68591</u>

		(a)	(b)	(c)	(d)
12		620146	620704	380401	340524
		<u>87533</u>	<u>475649</u>	<u>154292</u>	<u>37096</u>

		(a)	(b)	(c)	(d)
13		628420	701010	360320	460020
		<u>321284</u>	<u>492568</u>	<u>79086</u>	<u>251794</u>

		(a)	(b)	(c)	(d)
14		964037	624603	346012	630142
		<u>316691</u>	<u>308296</u>	<u>42566</u>	<u>169799</u>

		(a)	(b)	(c)	(d)
15		226021	401362	324603	913012
		<u>152678</u>	<u>85289</u>	<u>17161</u>	<u>92381</u>

16 From one hundred thousand take eight thousand seven hundred and sixty-five.

SIMPLE SUBTRACTION.

25

		(a)	(b)	(c)	(d)
17	From	354906	401325	704032	246014
	Take	<u>72969</u>	<u>93919</u>	<u>198869</u>	<u>37788</u>

		(a)	(b)	(c)	(d)
18		243614	320164	427304	324602
		<u>8478</u>	<u>78818</u>	<u>20988</u>	<u>70998</u>

		(a)	(b)	(c)	(d)
19		426103	321064	631042	501001
		<u>82697</u>	<u>13928</u>	<u>73696</u>	<u>36373</u>

		(a)	(b)	(c)	(d)
20		314023	441031	116043	320305
		<u>6797</u>	<u>68789</u>	<u>45697</u>	<u>93998</u>

		(a)	(b)	(c)	(d)
21		321403	410324	123406	321460
		<u>34057</u>	<u>76188</u>	<u>77189</u>	<u>77387</u>

		(a)	(b)	(c)	(d)
22		242310	431044	310462	443501
		<u>87976</u>	<u>6989</u>	<u>25789</u>	<u>36978</u>

		(a)	(b)	(c)	(d)
23		400106	100000	310090	100000
		<u>319869</u>	<u>71873</u>	<u>263999</u>	<u>17387</u>

24 Take seventy-five thousand eight hundred and forty-nine from ninety-five thousand and twelve.

MULTIPLICATION.

	(a)	(b)	(c)	(d)
1	986658 × 2	8609559 × 2	855955 × 2	189564 × 2
	657838 × 3	2763835 × 3	5760838 × 3	645868 × 3
	492582 × 4	947541 × 4	9376329 × 4	7076865 × 4

	(a)	(b)	(c)	(d)
2	1827492 × 5	7238346 × 5	9382632 × 5	758328 × 5
	9195467 × 6	6181934 × 6	767297 × 6	842894 × 6
	8635179 × 7	7987804 × 7	284529 × 7	7571816 × 7

	(a)	(b)	(c)	(d)
3	281973 × 10	9164514 × 10	7382901 × 10	5328291 × 10
	1737195 × 11	197529 × 11	2957928 × 11	172986 × 11
	931594 × 12	1962697 × 12	1437928 × 12	946519 × 12

	(a)	(b)	(c)	(d)
4	507679 × 8	3577803 × 8	1936383 × 8	918933 × 8
	488726 × 7	916073 × 7	246765 × 7	405872 × 7
	2057829 × 11	4919748 × 11	5884967 × 11	7378593 × 11

	(a)	(b)	(c)	(d)
5	953572 × 12	879097 × 12	923947 × 12	987619 × 12
	969095 × 64	78004 × 66	486470 × 28	549895 × 84
	365815 × 84	20366 × 96	524685 × 88	6738 × 56

	(a)	(b)	(c)	(d)
6	975575 × 384	152386 × 480	2391 × 308	117175 × 176
	65815 × 840	168029 × 384	398485 × 480	140395 × 264
	2870 × 672	217340 × 96	57965 × 96	2940625 × 128

	(a)	(b)	(c)	(d)
7	69713 × 448	90071 × 168	144667 × 560	60827 × 132
	109979 × 420	13780 × 308	75497 × 240	82265 × 672
	704075 × 168	720775 × 264	705725 × 528	3046595 × 240

	(a)	(b)	(c)	(d)
8	254575 × 768	7813 × 363	74955 × 616	293675 × 960
	87209 × 528	40375 × 704	79075 × 560	42185 × 280
	39065 × 726	25305 × 896	202745 × 960	842875 × 768

	(a)	(b)	(c)	(d)
9	8275 × 1760	195115 × 1920	7175 × 2688	3127 × 1760
	18650 × 1792	12260 × 5280	144545 × 384	14991 × 3080
	184375 × 1568	296875 × 1792	190625 × 1280	429125 × 1408

	(a)	(b)	(c)	(d)
10	55625 × 1280	208957 × 352	329731 × 660	140395 × 264
	3328 × 1925	37175 × 1408	5948 × 880	46705 × 176
	109315 × 840	838975 × 768	7325 × 880	39775 × 880

	(a)	(b)	(c)	(d)
11	41395 × 264	251375 × 2560	456125 × 1408	738875 × 384
	5273 × 880	41397 × 896	201875 × 1408	189125 × 2464
	4901875 × 768	206875 × 704	93325 × 1848	278125 × 2560

DIVISION.

	(a)	(b)	(c)	(d)
1	633839 ÷ 2	826236 ÷ 2	563981 ÷ 2	381802 ÷ 2
	1825655 ÷ 2	1829809 ÷ 2	219010 ÷ 2	936456 ÷ 2
	2479255 ÷ 3	2471261 ÷ 3	1669446 ÷ 3	1118588 ÷ 3

	(a)	(b)	(c)	(d)
2	854015 ÷ 3	949864 ÷ 3	1388565 ÷ 3	851373 ÷ 3
	1848608 ÷ 4	2094482 ÷ 4	2416112 ÷ 4	2021294 ÷ 4
	1014416 ÷ 4	3305673 ÷ 4	2166812 ÷ 4	1230452 ÷ 4

	(a)	(b)	(c)	(d)
3	2335510 ÷ 5	3662008 ÷ 5	2618016 ÷ 5	4113051 ÷ 5
	1851220 ÷ 5	3060088 ÷ 5	1582342 ÷ 5	2340142 ÷ 5
	4953271 ÷ 6	1953890 ÷ 6	4328112 ÷ 6	2474184 ÷ 6

	(a)	(b)	(c)	(d)
4	2269623 ÷ 6	2547025 ÷ 6	1718838 ÷ 6	3195732 ÷ 6
	5618291 ÷ 7	3880350 ÷ 7	4354751 ÷ 7	6421548 ÷ 7
	3728342 ÷ 7	4517274 ÷ 7	5785299 ÷ 7	3666614 ÷ 7

	(a)	(b)	(c)	(d)
5	2604904 ÷ 8	6597528 ÷ 8	1305615 ÷ 8	6596975 ÷ 8
	2730177 ÷ 8	5050024 ÷ 8	5872963 ÷ 8	4114299 ÷ 8
	8256114 ÷ 9	2116548 ÷ 9	5682388 ÷ 9	7446276 ÷ 9

	(a)	(b)	(c)	(d)
6	$5779556 \div 9$	$4708913 \div 9$	$6619558 \div 9$	$3332844 \div 9$
	$3612530 \div 10$	$4157030 \div 10$	$2713052 \div 10$	$6473820 \div 10$
	$2819285 \div 10$	$7036211 \div 10$	$3746262 \div 10$	$5570210 \div 10$

	(a)	(b)	(c)	(d)
7	$5743457 \div 11$	$7071801 \div 11$	$9100905 \div 11$	$7841911 \div 11$
	$5121303 \div 11$	$9098420 \div 11$	$5954150 \div 11$	$5091865 \div 11$
	$9914727 \div 12$	$6501861 \div 12$	$3405060 \div 12$	$9904963 \div 12$

	(a)	(b)	(c)	(d)
3	$5587092 \div 12$	$3448368 \div 12$	$8794097 \div 12$	$4341613 \div 12$
	$1666998 \div 8$	$7428716 \div 9$	$5758169 \div 11$	$10970912 \div 12$
	$2931381 \div 12$	$3662994 \div 7$	$6416216 \div 9$	$7130319 \div 11$

	(a)	(b)	(c)	(d)
2	$2489100 \div 11$	$1561151 \div 8$	$99284544 \div 12$	$4794612 \div 9$
	$885949 \div 12$	$991745 \div 12$	$4495525 \div 12$	$7580858 \div 12$
	$9081204 \div 11$	$8829120 \div 11$	$6120609 \div 11$	$5095820 \div 11$

	(a)	(b)	(c)	(d)
10	$47938388 \div 9$	$578586 \div 9$	$2586260 \div 9$	$500834 \div 9$
	$5891424 \div 8$	$3709752 \div 8$	$5771012 \div 8$	$426084 \div 8$
	$5782338 \div 7$	$2011737 \div 7$	$2647836 \div 7$	$5785122 \div 7$

	(a)	(b)	(c)	(d)
11	$8815968 \div 12$	$9906746 \div 12$	$8869968 \div 12$	$5619276 \div 12$
	$10101003 \div 11$	$713060 \div 11$	$609140 \div 11$	$316180 \div 11$
	$5438554 \div 9$	$7462557 \div 9$	$5810076 \div 9$	$7405857 \div 9$

	(a)	(b)	(c)	(d)
12	9928335 \div 12	11019243 \div 12	8837557 \div 12	7779276 \div 12
	7048120 \div 11	8121201 \div 11	9919130 \div 11	7129290 \div 11
	7446276 \div 9	5444224 \div 9	4876438 \div 9	7462557 \div 9

	(a)	(b)	(c)	(d)
13	1549652 \div 8	3753384 \div 8	5870112 \div 8	663339 \div 8
	453168 \div 7	309842 \div 7	5155374 \div 7	389544 \div 7
	4495536 \div 12	10965027 \div 12	758184 \div 12	509665 \div 12

MISCELLANEOUS EXAMPLES.

- A. (1) Add together,—forty-nine thousand and six; one hundred thousand; seventy-nine; forty-eight thousand and twenty; ninety thousand and ninety-six.
- (2) Take three thousand and eighteen from fifty-six thousand three hundred.
- (3) Divide ninety-nine thousand one hundred and sixty-eight by twelve.
- B. (1) Add together,—ninety-seven thousand; two thousand two hundred and forty-four; five hundred and two; sixteen thousand; seventy-eight thousand nine hundred and thirty-six.
- (2) From eighty-three thousand six hundred and forty take thirty-three thousand and sixty-seven.
- (3) Multiply four thousand eight hundred and forty-three by eleven.
- C. (1) Add together,—sixty thousand one hundred and forty; four thousand two hundred and seven; sixty-eight thousand four hundred; one hundred thousand; five hundred and forty-four.
- (2) Take seventeen thousand two hundred and thirty-six from thirty-six thousand four hundred and sixty-two.
- (3) Multiply eleven thousand four hundred and nineteen by eight.

- D. (1) Add together,—seventy-three thousand six hundred and twenty-one; four thousand; one thousand two hundred and seventy; ninety-two thousand seven hundred; seventy thousand six hundred and sixty-four.
- (2) Take eight thousand and twelve from twenty-seven thousand six hundred and forty-three.
- (3) Divide sixty-two thousand six hundred and fifty-two by twelve.
- E. (1) Add together,—ninety-one thousand five hundred and four; one hundred thousand; six thousand and forty-one; one hundred and twenty; six hundred and eight.
- (2) Take twenty-seven thousand and fifty-two from thirty thousand seven hundred and eighty.
- (3) Divide seventy-four thousand six hundred and nineteen by nine.
- F. (1) Add together,—forty-six thousand and twenty; thirty-one thousand; sixty-two; four thousand and thirty; nine hundred and thirty-four.
- (2) From forty thousand and ten take twenty thousand two hundred and eighty-nine.
- (3) Multiply one thousand six hundred and forty-eight by eleven.
- G. (1) Add together,—fifty-six thousand two hundred; thirty-three thousand six hundred and twenty-four; three hundred and two; ninety-seven thousand and forty; eight thousand three hundred and seventy-one.
- (2) Take forty thousand nine hundred and ninety from fifty thousand.
- (3) Divide eighty thousand nine hundred and five by eleven.
- H. (1) Add together,—seventy-three thousand; one hundred thousand; thirty-four thousand eight hundred and ninety; sixty-seven; five hundred and sixty-six.
- (2) Take thirty-nine thousand four hundred and ninety-one from ninety thousand and ten.
- (3) Multiply thirty-one thousand two hundred and nineteen by twelve.

- I. (1) Add together,—thirty-four thousand two hundred; ninety thousand six hundred and seventeen; two thousand and four; fifty-nine thousand and twenty; six thousand and eighty-seven.
- (2) From eighty thousand and thirty take sixty-nine thousand one hundred and two.
- (3) Multiply nine thousand and sixteen by eight.
- J. (1) Add together,—five hundred and seventy-three; one hundred thousand; six hundred and twenty; eighty-four thousand two hundred and eighty-one; ten thousand and sixty-three.
- (2) Take seventeen thousand five hundred and thirty-seven from sixty thousand and ten.
- (3) Divide ninety-eight thousand nine hundred and fifty-two by twelve.
- K. (1) Add together,—seventeen thousand and forty; one thousand; seven thousand and ninety; sixty-four; seven thousand three hundred and thirty-four.
- (2) Take fifty-eight thousand and eighty-eight from sixty thousand nine hundred and seven.
- (3) Multiply three thousand six hundred and twenty-six by seven.
- L. (1) Add together,—ninety-nine thousand; one thousand four hundred and thirteen; one hundred thousand; two thousand one hundred and twenty-four; eighty-five thousand seven hundred and eighteen.
- (2) From sixty thousand and twelve take forty-five thousand four hundred and ninety-three.
- (3) Divide fifty-one thousand three hundred and fifty-two by eight.
- M. (1) Add together,—eight hundred and ninety-nine; ninety thousand and eight; nine thousand and eighty-seven; fifty-one thousand and seventy; eighty-three thousand one hundred and nine.
- (2) Take seventy-eight thousand six hundred and eighty-nine from ninety-one thousand and two.
- (3) Multiply twenty-eight thousand seven hundred and twenty-nine by eleven.

STANDARD III.



DIVISION.

	(a)		(b)		(c)		(d)
1	1797824 ÷ 28	2393984 ÷ 64	6682905 ÷ 81	7942080 ÷ 96			
	2651280 ÷ 48	2068339 ÷ 49	3059352 ÷ 72	853730 ÷ 15			
	5386688 ÷ 84	3031168 ÷ 56	1891505 ÷ 55	1676512 ÷ 32			

	(a)		(b)		(c)		(d)
2	2953008 ÷ 36	4506568 ÷ 88	602181 ÷ 27	526016 ÷ 64			
	567972 ÷ 81	1069332 ÷ 132	566335 ÷ 77	554148 ÷ 108			
	141401 ÷ 73	6388291 ÷ 91	1187066 ÷ 83	653384 ÷ 92			

	(a)		(b)		(c)		(d)
3	1889202 ÷ 93	778940 ÷ 85	1660264 ÷ 79	288858 ÷ 93			
	183554 ÷ 49	1653121 ÷ 59	3423602 ÷ 91	1205824 ÷ 83			
	4874336 ÷ 76	19354137 ÷ 93	3658928 ÷ 52	4709136 ÷ 87			

	(a)		(b)		(c)		(d)
4	4970305 ÷ 95	107401 ÷ 67	261609 ÷ 87	153734 ÷ 79			
	2925212 ÷ 79	2680392 ÷ 78	168976 ÷ 59	5704341 ÷ 93			
	39883704 ÷ 86	23379272 ÷ 76	57629708 ÷ 94	34882456 ÷ 56			

	(a)		(b)		(c)		(d)
5	7218525 ÷ 379	5723192 ÷ 793	3222923 ÷ 895	5654841 ÷ 698			
	5400623 ÷ 739	8383190 ÷ 918	1842503 ÷ 787	6013120 ÷ 819			
	4151225 ÷ 919	7133207 ÷ 879	3306052 ÷ 918	6524586 ÷ 795			

	(a)		(b)		(c)		(d)
6	3161678 ÷ 878	4201027 ÷ 899	7247890 ÷ 878	7080694 ÷ 997			
	7249849 ÷ 906	5515093 ÷ 603	7273046 ÷ 909	5116157 ÷ 709			
	358949 ÷ 391	8993486 ÷ 793	62792650 ÷ 684	45081308 ÷ 739			

	(a)	(b)	(c)
7	20427395 ÷ 981	61860842 ÷ 845	1132948 ÷ 918
	47790494 ÷ 673	7594968 ÷ 919	8210885 ÷ 796
	5123442 ÷ 983	15029132 ÷ 759	63535197 ÷ 865
8	33663635 ÷ 895	3522068 ÷ 836	74078081 ÷ 913
	49663264 ÷ 1568	200537288 ÷ 3118	181659488 ÷ 1987
	74392792 ÷ 2591	130571659 ÷ 1769	77448496 ÷ 1658
9	173687628 ÷ 1892	173160901 ÷ 8114	303769150 ÷ 4116
	64040795 ÷ 3185	95387390 ÷ 3158	34498394 ÷ 3194
	3630940 ÷ 1908	15368774 ÷ 2164	6550274 ÷ 1819
10	231373828 ÷ 3164	231376691 ÷ 2791	26062959 ÷ 3561
	5820012 ÷ 1863	4152250 ÷ 1954	69685223 ÷ 8464
	756135254 ÷ 9143	857178391 ÷ 9513	314170405 ÷ 9186
11	64041233 ÷ 7009	64856606 ÷ 8006	43270809 ÷ 6009
	36080016 ÷ 8016	32477419 ÷ 9019	22957824 ÷ 8016
	20823215 ÷ 9401	11390372 ÷ 8603	87009120 ÷ 9504
12	57959138 ÷ 7039	31161489 ÷ 6059	65302198 ÷ 8061
	17178794 ÷ 1906	7725492 ÷ 1907	17370447 ÷ 1908
	11427155 ÷ 1609	9828232 ÷ 1608	6045771 ÷ 1607
13	18444205 ÷ 5904	11645264 ÷ 6409	7445887 ÷ 6806
	74800197 ÷ 9081	16109181 ÷ 8091	51083894 ÷ 7094
	7406038 ÷ 8076	5054137 ÷ 7098	7484425 ÷ 9083
14	3389000 ÷ 9013	1461250 ÷ 8073	42900128 ÷ 7019
	66341187 ÷ 8019	22047466 ÷ 9103	9969486 ÷ 8079
	1793027 ÷ 1990	1270237 ÷ 8760	7881322 ÷ 9530

COMPOUND ADDITION.

	(a)	(b)	(c)	(d)
1	£ s. d. 12 8½	£ s. d. 1 16 4½	£ s. d. 8 13 11½	£ s. d. 3 14 8½
	8 8 11½	4 6	2 1 7½	2 11½
	16 11	2 7 9½	3 8	4 17 9
	1 4 9½	6 13 11½	9 4 7½	1 12 4½
	3 11 3½	8 16 8½	7 17 8	1 7½

	(a)	(b)	(c)	(d)
2	£ s. d. 5 6½	£ s. d. 1 14 7½	£ s. d. 5 6 4½	£ s. d. 3 16 8½
	2 6 9½	6 8½	4 2	2 4 3½
	3 14 10	3 17 9	3 7½	9 8½
	2 7 4½	2 7½	7 4 10½	8 16 11
	7 1½	9 2 7	1 0½	14 6

	(a)	(b)	(c)	(d)
3	£ s. d. 9 4 11	£ s. d. 4 12 8	£ s. d. 3 4 8½	£ s. d. 6 8 9½
	18 6½	16 4½	1 4 2½	7 4½
	7 2 8½	7 18 7½	16 8½	6 15 5½
	9 5 5½	11 6	9 13 7½	2 10
	2 7 4½	4 0 10½	2 3 5	5 8 3

	(a)	(b)	(c)	(d)
4	£ s. d. 5 13 8½	£ s. d. 7 12 8	£ s. d. 2 12 8½	£ s. d. 1 16 7½
	15 7½	9 4½	7 6½	8 8 9½
	3 4 2	3 6 9½	8 9 10½	4 10½
	7 6½	18 4½	9 13 8½	9 0 0½
	3 5 3½	6 1	16 3	17 8½

- 5 Add together,—two pounds thirteen shillings and eight-pence halfpenny; nineteen shillings and sixpence three farthings; six pounds eight and tenpence; eighteen shillings and sixpence halfpenny; eight pounds three shillings and tenpence farthing.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
6	26	13	7½	94	7	8	29	6	2½	65	14	7
	8	0	1½	12	19	6½	9	2	10½	8	13	3½
	9	1	7¾	2	5	0½	97	3	7	14	18	9
	85	6	4½	29	13	6¾	98	19	6½	7	10	4½
	78	18	6¾	1	8	7½	73	7	3½	73	5	4½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
7	86	14	2½	62	8	7½	47	13	5	56	5	10½
	3	19	3¾	94	16	2½	8	6	8½	6	2	8½
	74	14	2½	7	3½		9	14	5	19	16	10¾
	10	10	10	1	6	2¾	26	17	2¾	99	3	8½
	15	10	11	23	0	8½	70	10	4¾	27	5	3½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
8	73	6	10	54	11	9½	42	16	8	87	14	2½
	1	18	7½	10	10	10¾	7	14	9½	76	3	9¾
	89	13	6½	87	2	4	46	2	10½	3	15	10½
	27	1	2¾	16	8½		39	12	4¾	14	2	
	52	12	10¾	37	5	3¾	72	12	7½	1	13	0¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
9	65	15	7½	74	2	8½	36	19	7½	84	2	8½
	3	9	9½	8	8	4½	27	14	3	7	16	2½
	27	14	8¾	36	14	8¾	7	8	3½	3	12	6
	8	17	6½	2	7	9½	10	3	5½	8	11	3¾
	17	6	8	10	8	7½	90	13	5	86	16	8¾

- 10 Find the sum of,—twenty-four pounds sixteen and sixpence; nineteen shillings and eightpence; twelve pounds and ninepence halfpenny; eighteen shillings and tenpence; thirty-four pounds six shillings and tenpence halfpenny.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
11	503	17	8½	975	13	2½	434	10	2½	407	8	2½
	364	10	2½	462	7	8½	273	4	5	380	19	7½
	874	9	0½	37	16	4½	79	12	8½	27	3	4½
	186	7	5½	896	14	10½	567	13	2½	625	15	2
	882	12	10½	697	8	3½	779	12	0½	71	16	3½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
12	876	14	6½	587	2	7½	872	4	3½	976	4	1½
	942	12	7½	43	8	10	735	8	6	74	2	4½
	36	3	6	689	10	9½	64	17	9½	956	18	3
	796	17	10½	76	14	11	187	10	2½	47	16	0½
	352	13	9½	404	7	10½	68	3	6	744	19	2½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
13	537	13	7½	967	7	5½	726	17	4	673	12	4½
	28	14	10	846	3	8	47	4	3½	64	8	2
	654	4	3½	523	10	6½	536	15	8	82	9	8½
	887	2	4½	547	14	10½	51	3	2½	36	16	10½
	315	3	10½	815	18	9½	557	19	1½	953	11	1

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
14	436	17	2½	169	18	9½	864	4	3½	763	5	7½
	47	4	8½	74	17	7	27	2	6	98	10	3
	983	10	7	682	13	8½	81	12	9½	47	6	10½
	64	8	11½	73	4	10½	976	15	8½	987	9	5½
	472	3	2	242	17	7½	671	3	8½	525	19	5½

- 15 Find the sum of,—one hundred and twenty pounds six shillings and elevenpence halfpenny; nine pounds sixteen shillings and eightpence farthing; eighty pounds and sixpence; nineteen shillings and elevenpence halfpenny; two hundred and three pounds seventeen shillings and sevenpence three farthings.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
16	9283	19	0½	9300	14	2½	3237	14	10½	9628	13	2½
	9107	14	7	5642	10	3	679	7	7½	5364	4	7
	64	8	10½	3202	15	6½	25	19	9	78	7	2½
	5382	16	9	706	10	9½	786	6	10½	9901	18	8
	6167	15	9½	9608	18	10½	777	14	3	5101	11	9½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
17	7384	11	6½	8764	12	4½	636	13	7½	7364	12	4½
	27	6	4½	42	0	8	2428	19	2	540	4	5½
	802	4	2½	403	12	7½	564	4	3	9738	7	10
	3760	14	8½	7629	5	11	36	12	8½	641	12	6½
	7854	13	2½	1277	10	9½	33	13	4	9797	13	0

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
18	5674	2	8½	8201	4	2	9315	14	7½	3764	12	5½
	5012	15	11½	376	12	3	1569	5	11	286	5	3
	919	13	6½	4718	3	11½	36	19	9½	5341	16	7½
	7296	10	0½	901	17	10	8769	4	6½	27	4	10½
	719	2	3½	2104	2	3½	9128	16	5½	9607	13	1

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
19	9407	12	2½	5374	3	8½	9736	4	8½	8274	14	7½
	369	5	4	276	14	2½	826	12	10½	9415	2	8½
	9009	17	1½	9247	12	8	49	13	2	61	5	2
	762	8	10	3760	4	2½	6173	17	6½	6836	13	6½
	8493	18	6½	396	10	8	2565	14	9½	3476	8	5½

- 20 Add together,—four thousand eight hundred and nine pounds thirteen and sixpence; nine thousand and ten pounds and eightpence halfpenny; eighty-four pounds nineteen shillings and a farthing; six hundred and one pounds ten shillings and sixpence; nine hundred and twenty-two pounds eleven shillings and sevenpence farthing.

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
21	80409	19	6	970642	12	0½	942743	12	2½
	9098	16	8½	473862	7	10½	87364	2	7
	604037	12	8½	489	19	8½	2896	15	1½
	912674	4	0	1004	18	2½	997208	17	8½
	328	7	10½	57208	6	10½	525341	19	10½
	205773	16	2½	398711	14	6½	299996	13	2½

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
22	230176	11	2½	64230	16	8½	248371	19	11½
	9847	3	9½	3426	7	9½	6842	8	9½
	61098	12	3	9864	13	11½	37483	17	5½
	37684	6	11½	432987	11	5½	954	6	10½
	8798	15	2½	6843	8	3	9769	13	6½
	837	3	6½	15289	0	5½	8997	4	4½

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
23	48240	19	6½	239540	15	4½	86204	19	11½
	6408	3	11½	8396	8	9½	7281	6	3½
	736	18	2½	987	13	10½	3893	11	4½
	8967	11	4	6275	9	3½	235976	7	10½
	390794	6	9	63829	6	0½	7368	0	9½
	8194	17	7½	15494	0	1½	83349	4	8½

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
24	46134	18	11	76103	14	6½	96482	19	11½
	9658	8	6½	707698	11	9½	7693	11	9½
	213865	9	8½	784	6	7	976	8	3½
	7986	11	1½	3976	8	11½	526854	13	10½
	38497	16	9½	7369	2	4½	3765	12	8½
	9758	19	4½	29391	12	1	6173	4	8

- 25 Add together,—eighty thousand one hundred and four pounds thirteen shillings and eightpence; nine hundred and seven pounds nineteen shillings and fourpence three farthings; eight thousand and eighty pounds and ninepence; ninety thousand one hundred and ninety pounds eighteen shillings and a farthing; thirty-six thousand nine hundred and eight pounds one and eightpence.

COMPOUND SUBTRACTION.

	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1 From	92 10 6½	63 15 2¾	82 6 8½	76 9 2½
Take	57 8 2¾	7 15 7½	9 3 3¾	3 18 10¾

	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
2	81 6 5½	93 8 4¾	37 11 8	48 0 7½
	7 6 9¾	20 6 10¾	9 1 5½	1 18 1¾

	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
3	73 10 6½	65 12 2½	72 3 8½	35 3 9
	10 19 1½	13 18 10¾	8 13 0¾	1 19 3¾

	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
4	84 0 7	71 9 7¾	82 14 9	65 11 8½
	1 19 4½	6 17 3½	8 18 8½	0 18 9

	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
5	91 18 5½	83 0 8½	91 3 7½	82 7 3½
	8 18 9¾	19 7 3¾	8 19 8½	9 3 10¾

	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
6	64 11 8½	71 8 5	54 13 6½	67 8 11
	8 12 4¾	6 9 1½	7 14 2¾	2 9 3½

- 7 From forty pounds eleven shillings and a penny halfpenny, take thirty-eight pounds twelve shillings and ninepence three farthings.

COMPOUND SUBTRACTION.

41

	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
8	From 403 19 7½	612 8 11½	524 11 2½	347 9 4
	Take 31 11 3½	97 17 0½	81 19 8½	30 18 9½
	<hr/>	<hr/>	<hr/>	<hr/>
	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
9	542 18 7½	708 4 10	831 14 0½	621 10 1
	91 8 4½	62 5 4½	28 18 10½	89 18 6½
	<hr/>	<hr/>	<hr/>	<hr/>
	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
10	680 14 8	701 2 9½	401 13 6	510 10 2½
	98 3 8½	69 16 9½	29 15 0½	58 19 2½
	<hr/>	<hr/>	<hr/>	<hr/>
	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
11	380 12 1½	802 8 10½	342 12 1½	306 0 4
	99 19 8½	80 17 10½	97 12 8½	97 9 0½
	<hr/>	<hr/>	<hr/>	<hr/>
	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
12	461 4 10	802 1 4½	314 12 0½	406 8 7½
	90 11 10½	399 16 9½	88 19 6½	35 17 7½
	<hr/>	<hr/>	<hr/>	<hr/>
	(a)	(b)	(c)	(d)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
13	620 5 2	720 0 2	530 12 3	632 4 3½
	87 11 10½	78 10 10½	97 19 9½	73 12 11½
	<hr/>	<hr/>	<hr/>	<hr/>

- 14 Take nine pounds one and sevenpence halfpenny from two hundred and one pounds and threepence.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
15	4003	17	6	2061	14	0	4213	11	9½	6032	10	0¾
	896	17	10½	787	17	6¾	908	16	9¾	891	10	5½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
16	5130	9	3½	6102	18	2½	3760	5	3½	6013	7	0½
	797	11	11½	898	18	10¾	325	18	11½	693	3	7¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
17	7011	10	3	5241	6	8½	6035	2	11½	7015	3	9
	709	17	10½	938	14	8½	887	10	7¾	911	10	9¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
18	6412	18	4½	3150	6	7	6302	3	4½	5381	0	6½
	821	7	9¾	817	15	1½	891	12	4¾	959	10	10¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
19	8001	13	5	7101	0	9½	8010	0	6	8001	0	1½
	649	19	11¾	979	5	9¾	988	16	6¾	999	8	9¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
20	9000	0	4½	8000	11	0½	8100	12	11	7410	10	6½
	799	18	4¾	999	18	4¾	880	18	11¾	919	18	6¾

21 From eight thousand and ten pounds nine shillings and a penny, take seven hundred and ninety-eight pounds nineteen and ninepence farthing.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
23	10001	11	1	31030	12	5½	10001	1	6	21010	0	4½
	8019	18	7½	11290	19	11½	1709	19	11½	1990	18	4½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
23	14004	6	5	20100	13	4½	12012	15	1½	31101	17	3
	10276	13	11½	9919	12	4¾	11097	19	9¾	30008	19	9¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
24	40101	11	2	40202	13	4	41012	1	4	19019	11	1
	38191	18	6	31993	1	9½	35899	19	8½	17831	18	5½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
25	31102	11	1	50005	5	5	30030	3	3	20000	13	0½
	3992	19	10½	3809	19	11¾	9799	19	9¾	9985	19	4¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
26	71001	0	6	40401	1	11	90130	0	4	81011	11	9
	69009	16	6¾	7099	17	11¾	8048	8	7	9999	16	9½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
27	30019	13	5½	81007	2	2	40001	5	5	90010	1	10½
	6603	19	1¾	70099	2	6½	36259	19	11¾	8998	7	10¾

28 Take three thousand seven hundred and eighteen pounds nineteen and ninepence three farthings from fifty thousand and three pounds six and threepence.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
29	403001	8	6	801000	1	2	71004	10	1	310001	11	6
	365801	9	7	609907	3	8½	9639	10	9½	118049	19	7

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
30	51001	0	7	610100	0	3½	100101	1	1	210010	10	1½
	4998	2	11½	50980	0	11½	95989	8	5½	19098	1	9½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
31	301004	3	6½	100040	15	11	810012	10	0½	60987	16	1½
	299079	18	10½	90921	0	11½	719999	12	8½	59068	14	10½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
32	100090	11	11	601030	1	6	50190	18	10½	300101	0	6
	94850	19	11½	599796	19	10½	3999	17	10½	290998	2	10½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
33	131040	11	6	300410	0	0½	100101	1	3½	78918	19	11
	109690	19	11½	286998	18	9½	90909	1	11½	76999	4	11½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
34	200141	0	8½	816000	10	9	92013	0	6	200130	13	9½
	180698	18	8½	760993	18	10	9498	19	10½	193990	17	9½

- 35 Take sixty-five thousand nine hundred and eighty pounds eighteen and elevenpence from three hundred thousand one hundred pounds and eightpence.

MISCELLANEOUS EXAMPLES.

- A. (1) Paid the grocer £9 10s. 6d., shoemaker 11s. 8d., and draper £2 10s. 8d.; how much had I left of £16 7s. 9d.?
- (2) Find the difference between eight thousand seven hundred and seventy-three pounds eight and fivepence, and one hundred thousand and nine pounds and a penny.
- (3) Divide 646,760 by 92.
- B. (1) How much will be left of 13 guineas after paying away £2 10s. 8d., 9s. 1½d., and £9 19s. 8¾d.?
- (2) Take £18,076 18s. 6d. from twenty thousand and fifty pounds and threepence.
- (3) Divide 872,981 by eight thousand and nine.
- C. (1) Paid rent £52 12s., painter's bill £15 18s. 11½d., and builder's £29 13s. 9½d.; how much was the whole amount less than £100?
- (2) Take £7,889 5s. 1d. from nineteen thousand and six pounds three shillings.
- (3) Divide 86,424 by 78.
- D. (1) If I have £3,000 in the bank, and am obliged to take out £85 9s. 10d., £605 19s. 11d., and £201 10s. 3d., how much will be left?
- (2) Find the difference between £50,000 0s. 10d. and £39,900 1s. 11d.
- (3) Divide 297,970 by 718.
- E. (1) Find the remainder after subtracting the sum of £902 16s. 8d. and £6,079 3s. 4d. from £7,010 19s.
- (2) Take £985 6s. 11d. from one hundred and ten thousand and four pounds and sixpence.
- (3) Divide 157 thousand and 94 by 98.

- F. (1) Paid rent £16 19s. 11d., grocer £8 19s. 1½d., tailor £4 16s. 11½d.; how much did the whole amount to?
- (2) Find the difference between £39,099 18s. 10d. and £40,013 13s.
- (3) Divide 143,479 by 199.
- G. (1) Bought a horse for £45, a cow for £25 10s. 6d., some sheep for £30, and spent 3s. 2d. in refreshment; how much had I out of £110 10s.?
- (2) Take £991 4s. 7d. from one thousand and ten pounds nineteen shillings.
- (3) Divide fifty-six thousand 203 by 1519.
- H. (1) What did the following bills amount to—grocer £1 10s. 10½d., butcher £1 16s. 11½d., coals £8 7s. 2d., builder £20?
- (2) Take £90,092 10s. 1d. from one hundred and one thousand pounds eleven shillings.
- (3) Divide 935,410 by 805.
- I. (1) How much had I left of 20 guineas after paying away £7 13s. 8½d., £10 10s. 11½d., and £1 19s. 1½d.?
- (2) From thirty-one thousand pounds and tenpence take £30,800 1s. 11d.
- (3) Divide 140,244 by 87.
- J. (1) A dealer took £50 out of the bank and bought a cow for 18 guineas, some sheep for 13 guineas, and pigs for £13 15s. 9d.; how much money had he left?
- (2) Take £903 17s. 10d. from eleven hundred pounds nine and ninepence.
- (3) Divide 155,825 by 575.
- K. (1) How much was left of 13 guineas after paying draper £4 15s. 6½d., grocer £3 0s. 10½d., and butcher £4 19s. 5d.?
- (2) Take £318 11s. 10d. from five thousand and five pounds and ninepence.
- (3) Divide 40 thousand two hundred and 80 by 95.

- L. (1) A grocer bought sugar for £6 15s. 10d., tea for £50 17s., bacon for £45 13s. 9d., also some spice; the whole amounted to 100 guineas. What did he give for the spice?
- (2) From six thousand and three pounds three shillings take £5,939 11s. 3d.
- (3) Divide 455,232 by 7,113.
- M. (1) A merchant bought goods for £1,050, he sold half of them for £718 19s. 6d., and the other half, being damaged, for £315 16s. 6d.; what was his loss?
- (2) Take £29,811 19s. 11½d. from £30,101 11s. 11d.
- (3) Divide 1,268,629 by seven thousand and nine.
- N. (1) A man earned £48 in three months—the first month £15 14s. 4d., the second £19 2s. 5d.; how much did he earn the third month?
- (2) Take £2,876 16s. 11d. from three thousand pounds.
- (3) Divide 656,998 by 89.
- O. (1) Paid £4 11s. 11½d. for grocery, 19s. 7½d. for meat, and 14 guineas for rent; how much had I left out of 20 guineas?
- (2) Find the difference between £2,855 4s. 8d. and three thousand and one pounds.
- (3) Divide 5,821,312 by 8,176.
- P. (1) Take the sum of £8 11s. 11½d., £19 10s. 3½d., and £35 0s. 11½d. from £81 15s.
- (2) Take seven hundred and ninety-eight thousand and fifty-nine pounds seven shillings and sevenpence from eight hundred thousand and one pounds and sixpence.
- (3) Divide 448,916 by 97.
- Q. (1) What was the total profit made by a grocer in one year if on sugar he cleared £75 10s. 6d., on tea £103 9s. 11d., on candles and soap £65 19s. 7d., and on sundries £98?
- (2) Take £223 18s. 3d. from 300 guineas.
- (3) Divide one million 134 thousand and forty-six by 919.

- R. (1) Find the sum of 17 guineas, 15 halfsovereigns, seven halfcrowns, and £8 18s. $1\frac{1}{2}d.$
- (2) Find the difference between £887 3s. $8\frac{1}{2}d.$ and ten thousand pounds.
- (3) Divide 2,558,968 by eight thousand and ninety-eight.
- S. (1) How much had I left out of £50 after paying rent £25, grocer £12 11s. $9\frac{1}{2}d.$, baker £7 11s. $6\frac{1}{2}d.$, and tailor £3 19s. $6d.$?
- (2) Take £3,090 19s. $7\frac{1}{2}d.$ from five thousand and ten pounds and tenpence.
- (3) Divide 891,366 by seven hundred and ninety-eight.
- T. (1) Find the sum of £75 13s. $6\frac{1}{2}d.$; 17s. $11\frac{3}{4}d.$; one thousand pounds and sevenpence; £95 5s.; and £35 2s. $10\frac{3}{4}d.$
- (2) Take £1,484 6s. $10\frac{1}{2}d.$ from one thousand five hundred pounds and sixpence.
- (3) Divide 7,223,853 by 987.
- U. (1) Find the sum of three £10 notes, 25 guineas, 17 crowns, and £3 11s. $9d.$
- (2) A merchant received two thousand pounds for sales; he bought other goods for £1,193 13s. $10d.$, and paid £675 3s. into the bank; what had he left?
- (3) Divide 2,170,249 by seven hundred and nine.
- V. (1) From thirteen thousand pounds, take the sum of £89 19s. $5d.$; 9,019 17s. $11\frac{1}{2}d.$; £98 13s. $10\frac{3}{4}d.$; and £3,457 14s. $5\frac{1}{2}d.$
- (2) Find the difference between £99 16s. $8\frac{1}{2}d.$ and 110 guineas.
- (3) Divide 6,646,496 by 907.
- W. (1) I paid away £100 as follows,—to house decorator £76 13s. $8\frac{1}{2}d.$, bricklayer £13 15s. $5d.$, ironmonger £8 8s. $3\frac{3}{4}d.$, and the remainder to a blacksmith for shoeing, what did he receive?
- (2) Take ten thousand eight hundred and eighty-eight pounds and $8\frac{1}{2}d.$ from 14 thousand and four pounds and fourpence.
- (3) Divide 3,120,747 by 519.

STANDARD IV.

—o—

COMPOUND ADDITION.

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
1	81094	19	8	196487	18	9	865463	18	8½
	908976	18	11½	8973568	17	10½	7624086	19	11
	949	19	9	9843	19	9	476032	11	2½
	9084	7	6½	376	8	3½	8654	7	6½
	112898	1	3½	950226	2	11½	1186066	15	0

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
2	397643	18	7½	486397	14	9½	763986	14	9
	765482	16	8	769539	11	11	76384	19	11
	1984328	19	11½	86436	9	10½	8965	13	8½
	643917	8	9½	7984	19	8	63859	8	5½
	36310657	2	3½	662681	7	1½	1098854	2	5½

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
3	679853	19	11	486235	19	11	684376	19	1½
	6483972	8	9½	79843	8	9	98543	16	9
	34769	12	8½	65479	13	8½	986543	11	11½
	7624	9	6	638742	7	6½	9479	8	6
	22899839	10	4	8840002	16	4½	8382057	6	1½

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
4	486394	19	11	986437	19	11½	798643	18	4½
	98762	12	8½	98674	13	8	65982	11	3
	356948	8	6½	108436	8	9½	487397	8	11½
	7956	13	10	35679	6	7½	79576	13	9
	8150238	11	3½	781803	12	4½	608799	10	10½

- 5 Add together,—ninety thousand and eighty pounds and ninepence farthing; nine hundred and nine thousand and seven pounds fourteen shillings and a farthing; three thousand and four pounds and fivepence; nine hundred thousand seven hundred and ten pounds five shillings and a halfpenny; thirty-five thousand pounds nineteen shillings and three farthings.

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
6	696543	19	4½	98764	13	11	47609	17	9½
	79865	13	11	684328	9	2½	98641	16	11
	987452	8	9½	3869402	6	6	329765	15	2½
	62019	6	7	76536	11	9½	76985	11	8½
	28276149	18	4½	5484987	18	10½	507361	7	5½

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
7	98648	17	9	486398	18	11½	98647	11	6
	368259	13	8	75486	13	8	549762	16	8½
	65471	8	11½	398743	9	6½	7583	8	9½
	9764	11	6½	8491	6	7½	64396	14	10
	1468955	8	4½	132894	14	4½	583029	11	6½

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
8	764861	19	10	986471	15	2½	698648	19	11
	39654	7	6½	98653	8	6	76836	8	9½
	54796	8	9½	7965	13	9½	3597	15	6½
	198537	11	6	75639	19	11½	84975	11	8½
	203555	15	6½	61669	3	2	366353	11	5½

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
9	769854	18	6½	468910	14	7	398647	14	9½
	78652	14	11	97654	9	11½	76854	9	11
	9876	9	8½	6843	8	6½	187468	11	10½
	376985	7	5½	384792	11	10½	9653	8	7½
	775661	11	8½	53810	18	8½	57781	16	6½

- 10 Find the sum of,—forty thousand and one pounds two and sevenpence farthing; two hundred and six thousand pounds seventeen shillings and a halfpenny; sixty-nine thousand and nine pounds five shillings and three farthings; one hundred thousand and two pounds eighteen and twopence halfpenny; three hundred and twenty-eight pounds seven and sixpence farthing.

11	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
	965476	18	7½	963048	17	6½	76329	14	8½
	876588	16	8½	82659	9	4½	660	18	11
	39765	8	6	7506	18	9	3098	13	5½
	96047	19	11½	36897	16	8½	68547	9	7½
	9032574	1	7½	112927	5	9½	1454769	6	10½

12	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
	48763	14	11	764832	19	7½	76384	16	9
	765489	16	8½	3079	11	3½	5476	8	6½
	39876	8	6½	56807	13	9	708	19	5½
	907	13	7½	762	18	8½	32847	11	11½
	46266	9	7½	75823	13	10½	7622	6	10½

13	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
	176905	13	11½	826904	18	9½	84379	15	3½
	98743	9	8½	87539	7	6½	665986	9	11½
	2649876	16	3½	398762	11	5½	37895	12	9½
	37689	18	9½	79843	8	11	8764	10	6½
	385593	11	10½	3247691	5	8½	94378	8	7½
	984010	0	4	683591	5	2½	25942	2	4½

14	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
	49614	6	11½	291643	18	7½	368731	18	2½
	8397	11	8½	8762	9	8½	97643	9	7½
	67482	9	7½	1729574	11	10½	649865	13	11½
	535783	7	6½	37985	17	6½	5387694	12	9½
	6576	15	5	216859	5	9	276386	8	10
	64965	0	9½	68902	10	0	602300	16	2½

- 15 Add together,—nineteen pounds seven and sixpence farthing; two thousand eight hundred pounds twelve shillings and three farthings; thirty-six thousand four hundred and six pounds four and tenpence; seventy thousand two hundred and nine pounds nineteen and sevenpence halfpenny; sixty-nine pounds five and ninepence halfpenny.

COMPOUND SUBTRACTION.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1	40100	1	2½	763004	2	0	90601	11	0½	300100	2	7½
	9939	17	9¾	359991	16	9½	59889	8	9¾	279059	19	3½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
2	44030	0	1	70040	19	0½	20010	0	0	40641	10	5
	6623	16	10¾	56638	17	8½	17947	16	11½	3576	10	11¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
3	70121	9	5	30204	0	0½	40102	8	0½	41102	10	1½
	9718	11	11¾	9799	12	11¾	36799	15	10¾	7891	17	0¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
4	65006	15	2¾	65034	0	9	70361	4	0½	31020	3	0½
	57972	18	7½	18751	19	8½	62087	19	6½	18988	19	8¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
5	64021	15	5	43069	8	2½	80011	3	0	30402	6	8½
	8376	19	11¾	5419	8	11¾	39391	19	11½	1797	7	0¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
6	30403	13	2	90120	8	2½	30102	5	2½	60120	9	5
	7798	17	8¾	59957	19	10½	3896	19	10¾	9889	9	11¾

- 7 Take eighty-nine thousand one hundred and ninety-three pounds fifteen shillings and eightpence farthing from two hundred thousand pounds.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
8	62001	14	1½	50200	1	3	20110	16	6	50110	9	0½
	9697	17	9½	9958	18	10½	7397	19	10½	16898	16	11½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
9	5301001	10	2½	301264	0	0	400091	1	3	902800	17	1
	4382769	14	9½	240826	19	8½	74940	16	9½	298484	14	9½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
10	360840	0	1½	483010	1	2½	100100	0	1½	360070	0	0
	58433	19	9½	392907	12	7	59498	16	10½	269966	12	6½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
11	76010	1	2½	700204	3	0½	200101	0	4½	200163	1	0
	15606	13	10½	97189	17	11½	95987	17	3½	97858	14	10½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
12	180000	0	1	7010010	0	6	830000	0	9½	70101	16	8½
	109996	18	4	590774	17	1½	99980	19	6½	69908	19	4½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
13	701003	13	0½	10000	10	6	703113	11	0	310907	7	7
	609839	18	9½	998	18	5½	82869	18	4½	94888	15	11½

- 14 Take sixty-nine thousand six hundred and eighty-eight pounds thirteen and fourpence halfpenny from three hundred thousand pounds thirteen shillings.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
15	143001	1	6	701036	0	5	313001	1	3	569004	3	0
	89718	19	11½	97899	8	10½	31766	18	11½	9871	17	6½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
16	900040	3	8	3000000	0	0	200050	1	3½	353002	13	0
	76320	8	6½	180278	16	7½	8077	19	11½	9871	17	6½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
17	900040	3	8	103019	11	11	203101	3	3	70910	19	0½
	278897	10	4½	88689	17	11½	9679	19	10½	6791	19	8½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
18	811041	0	11½	313041	13	6½	700101	0	1	34361	12	8½
	89923	8	11½	86609	1	11½	98888	16	10½	6071	19	7½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
19	131004	10	10½	5000050	2	2	401030	0	11	60109	18	1½
	3589	18	10½	668777	18	2½	99969	17	10½	4999	18	5½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
20	200000	0	9	516024	0	2½	301904	7	1½	1383718	10	9
	853	8	10½	433283	16	5½	12785	15	10½	466412	16	3½

21 Take three hundred and ninety thousand one hundred and thirty pounds eighteen shillings and three farthings from four hundred and two thousand and four pounds nine shillings and fourpence.

COMPOUND MULTIPLICATION.

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
1	3550	17	$8\frac{1}{2} \times 2$	977	16	$7\frac{3}{4} \times 2$	995	19	$9\frac{3}{4} \times 2$
	575	11	$2\frac{1}{2} \times 3$	9890	19	$10\frac{1}{2} \times 3$	1848	19	$9\frac{3}{4} \times 3$
	273	17	$9\frac{3}{4} \times 4$	487	17	$9\frac{1}{2} \times 4$	7787	18	$9\frac{3}{4} \times 4$
	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
2	16542	11	3×5	8084	7	$8\frac{1}{2} \times 5$	388	12	$8\frac{1}{2} \times 5$
	8931	19	$11\frac{1}{2} \times 6$	1846	15	$4\frac{3}{4} \times 6$	4068	11	$8\frac{3}{4} \times 6$
	16729	18	$10\frac{1}{2} \times 7$	8889	13	$8\frac{1}{2} \times 7$	5939	0	$6\frac{3}{4} \times 7$
	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
3	2787	16	$9\frac{3}{4} \times 8$	6763	17	$9\frac{3}{4} \times 8$	1598	16	$9\frac{3}{4} \times 8$
	381	19	$1\frac{1}{2} \times 9$	1489	4	4×9	817	18	$1\frac{1}{2} \times 9$
	5145	11	$9\frac{1}{2} \times 10$	372	17	$7\frac{1}{2} \times 10$	2802	15	$6\frac{1}{2} \times 10$
	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
4	3938	19	$11\frac{1}{2} \times 11$	1893	10	$10\frac{1}{2} \times 11$	834	16	$3\frac{3}{4} \times 11$
	5349	19	$9\frac{1}{2} \times 12$	6690	18	$11\frac{1}{2} \times 12$	5394	19	$9\frac{1}{2} \times 12$
	5819	6	$7\frac{1}{2} \times 9$	1913	8	$7\frac{1}{2} \times 9$	812	14	7×9
	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
5	5706	0	$7\frac{3}{4} \times 18$	3379	19	$11\frac{1}{2} \times 24$	9641	13	$8\frac{3}{4} \times 48$
	901	6	4×81	43	18	$0\frac{1}{2} \times 72$	325	3	$0\frac{1}{2} \times 72$
	751	1	$8\frac{3}{4} \times 96$	11	16	$2\frac{1}{2} \times 144$	1095	2	$5\frac{3}{4} \times 96$
	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
6	4875	1	$6\frac{1}{2} \times 144$	78	3	$7\frac{1}{2} \times 192$	163	0	$5\frac{1}{2} \times 192$
	427	5	$6\frac{1}{2} \times 192$	33	8	$9\frac{1}{2} \times 240$	15	11	$1\frac{1}{2} \times 720$
	41	17	2×264	45	7	$7\frac{1}{2} \times 288$	204	3	4×168

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
7	28 18		$8\frac{3}{4} \times 432$	1517 5		$0\frac{1}{4} \times 528$	339 12		$8\frac{1}{2} \times 384$
	657 17		$1\frac{3}{4} \times 672$	690 2		$7\frac{1}{2} \times 768$	376 12		$1\frac{3}{4} \times 672$
	409 3		$10\frac{3}{4} \times 768$	37 2		$0\frac{1}{2} \times 864$	91 13		$4\frac{3}{4} \times 896$

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
8	301 14		$4\frac{3}{4} \times 3024$	85 6		$6\frac{1}{2} \times 1056$	435 1		$0\frac{3}{4} \times 3024$
	522 6		$7\frac{1}{2} \times 1536$	0 10		$1\frac{1}{2} \times 4224$	536 17		$1\frac{3}{4} \times 1536$
	352 13		$7\frac{1}{2} \times 1152$	855 3		$8\frac{3}{4} \times 1296$	285 14		$0\frac{1}{2} \times 2880$

COMPOUND SHORT DIVISION.

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
1	182081	6	$7\frac{1}{2} \div 2$	92723	19	$3 \div 2$	56687	5	$10\frac{1}{2} \div 2$
	165028	7	$10\frac{1}{2} \div 2$	128039	4	$1\frac{1}{2} \div 2$	1472087	12	$10\frac{1}{2} \div 2$
	59407	11	$7\frac{1}{2} \div 3$	84220	12	$11\frac{1}{2} \div 3$	138857	3	$10\frac{1}{2} \div 3$

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
2	246140	17	$11\frac{1}{2} \div 3$	273194	18	$3\frac{3}{4} \div 3$	85387	4	$11\frac{1}{2} \div 3$
	329491	10	$6 \div 4$	292115	17	$3 \div 4$	90477	7	$6 \div 4$
	173315	17	$9 \div 4$	258927	18	$3 \div 4$	149734	5	$10 \div 4$

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
3	1445867	12	$8\frac{1}{2} \div 5$	186447	19	$10\frac{3}{4} \div 5$	410684	18	$1\frac{1}{2} \div 5$
	231859	11	$6\frac{3}{4} \div 5$	187032	17	$3\frac{1}{2} \div 5$	230637	15	$8\frac{3}{4} \div 5$
	438173	17	$9 \div 6$	441789	17	$7\frac{1}{2} \div 6$	168657	19	$9 \div 6$

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
4	3848174	9	$10\frac{1}{2} \div 6$	260076	9	$3 \div 6$	5486540	3	$10\frac{1}{2} \div 6$
	221460	10	$0\frac{1}{2} \div 7$	492425	11	$7\frac{1}{2} \div 7$	260462	16	$0\frac{1}{2} \div 7$
	221399	18	$10\frac{3}{4} \div 7$	188140	5	$0\frac{3}{4} \div 7$	1389537	0	$4\frac{1}{2} \div 7$

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
5	339863	14	6 ÷ 8	4837859	9	0 ÷ 8	1557030	17	4 ÷ 8
	225542	19	6 ÷ 8	5891863	14	6 ÷ 8	4451352	9	10 ÷ 8
	582656	2	2½ ÷ 9	382095	2	9¾ ÷ 9	120048	3	7½ ÷ 9

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
6	293162	8	6¾ ÷ 9	390191	18	8½ ÷ 9	379219	13	7½ ÷ 9
	281639	11	11½ ÷ 10	5537121	2	1 ÷ 10	1953209	12	2½ ÷ 10
	3746289	10	6¾ ÷ 10	622641	11	10½ ÷ 10	284676	3	1½ ÷ 10

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
7	585702	7	1½ ÷ 11	456804	3	8½ ÷ 11	3092017	14	1½ ÷ 11
	713128	7	5½ ÷ 11	316134	13	5½ ÷ 11	217113	16	2½ ÷ 11
	882630	13	3 ÷ 12	2379057	2	6 ÷ 12	3394038	14	9 ÷ 12

	(a)			(b)			(c)		
	£	s.	d.	£	s.	d.	£	s.	d.
8	776555	11	7 ÷ 12	992862	14	7½ ÷ 12	2810087	14	6½ ÷ 12
	746249	18	3 ÷ 9	824525	13	8½ ÷ 9	6628343	13	10½ ÷ 9
	804701	19	2½ ÷ 11	784111	9	2 ÷ 11	5140915	14	11¾ ÷ 11

REDUCTION OF MONEY.

Reduce to farthings.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1	13	5	8¾	24	11	3½	95	1	5¾	123	0	11¾
	347	1	1½	580	12	3¾	638	15	8¾	387	9	5½
	522	3	9½	860	17	9¾	939	5	10½	295	12	3¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
2	1595	12	8¾	1982	2	5½	1116	16	8¾	3293	8	11¾
	1050	3	11¾	1795	12	3¾	1988	18	8½	1079	3	8¾
	5316	13	8¾	3140	12	6½	1770	18	9½	1048	19	2½

Reduce to pounds, &c.

	(a)	(b)	(c)	(d)
	farthings.	farthings.	farthings.	farthings.
3	19182	20786	22782	27807
	71022	87901	79446	87316
	110079	116910	173790	165768
	(a)	(b)	(c)	(d)
	halfpence.	halfpence.	halfpence.	halfpence.
4	50271	842231	355041	197607
	78696	308112	92524	268707
	82879	309024	178875	294559

COMPOUND LONG DIVISION.

	(a)	(b)	(c)
	£ s. d.	£ s. d.	£ s. d.
1	4466 6 $6\frac{1}{2} \div 13$	4120 15 $1\frac{1}{2} \div 13$	7854 15 $9\frac{1}{2} \div 13$
	2020 11 10 $\div 17$	2937 16 3 $\div 17$	12114 5 $0\frac{1}{2} \div 17$
	13906 13 $10\frac{1}{2} \div 19$	6691 4 $1\frac{1}{2} \div 19$	3278 17 $8\frac{1}{2} \div 19$
	(a)	(b)	(c)
	£ s. d.	£ s. d.	£ s. d.
2	2534 5 $4\frac{1}{2} \div 39$	2477 2 $2\frac{1}{2} \div 39$	6714 4 $3\frac{1}{2} \div 39$
	31472 7 $5\frac{1}{2} \div 43$	1606 2 $9\frac{1}{2} \div 43$	832 2 $9\frac{1}{2} \div 43$
	4720 6 3 $\div 57$	2541 2 $7\frac{1}{2} \div 57$	1919 5 $11\frac{1}{2} \div 57$
	(a)	(b)	(c)
	£ s. d.	£ s. d.	£ s. d.
3	3120 17 3 $\div 84$	4462 4 9 $\div 84$	8665 0 6 $\div 84$
	8674 1 $10\frac{1}{2} \div 95$	30111 14 $8\frac{1}{2} \div 95$	2736 3 $11\frac{1}{2} \div 95$
	3254 8 $0\frac{1}{2} \div 59$	1702 12 10 $\div 59$	3833 17 $10\frac{1}{2} \div 59$
	(a)	(b)	
	£ s. d.	£ s. d.	
4	3480 12 6 $\div 75$	4622 6 $10\frac{1}{2} \div 75$	
	1930 2 $3\frac{1}{2} \div 97$	8017 5 $3\frac{1}{2} \div 97$	
	66408 3 $1\frac{1}{2} \div 318$	74238 0 $11\frac{1}{2} \div 372$	

		(c)			(d)		
		£	s.	d.	£	s.	d.
		2835	18	9 ÷ 75	2118	16	6¼ ÷ 75
		15902	19	3½ ÷ 97	13160	12	2½ ÷ 97
		184386	11	10½ ÷ 365	230125	19	11½ ÷ 381
		(a)			(b)		
		£	s.	d.	£	s.	d.
5		78060	12	9¾ ÷ 395	72338	19	9 ÷ 398
		190534	13	8½ ÷ 619	198527	18	3½ ÷ 627
		363129	18	6 ÷ 873	517735	14	10½ ÷ 956
		(c)			(d)		
		£	s.	d.	£	s.	d.
		91328	18	4½ ÷ 419	54599	9	11½ ÷ 459
		86652	14	9 ÷ 634	483426	4	0½ ÷ 687
		303586	16	7¾ ÷ 987	373113	1	10½ ÷ 899
		(a)			(b)		
		£	s.	d.	£	s.	d.
6		100404	13	9½ ÷ 1093	1823708	14	3½ ÷ 3019
		2847381	13	2¾ ÷ 2837	12329074	2	1½ ÷ 4087
		3171561	16	9½ ÷ 3908	5325772	8	3 ÷ 5906
		(c)			(d)		
		£	s.	d.	£	s.	d.
		910598	11	4¾ ÷ 2019	143979	8	2 ÷ 3901
		3977723	18	6 ÷ 3906	3279925	17	3½ ÷ 4086
		1793835	4	1 ÷ 5087	1004363	0	1 ÷ 5807
		(a)			(b)		
		£	s.	d.	£	s.	d.
7		67786	2	2 ÷ 8907	52118	10	5½ ÷ 7819
		9795	11	8 ÷ 9816	8445	0	3½ ÷ 8909
		6582	13	11½ ÷ 9905	5515	15	6¾ ÷ 9098
		(c)			(d)		
		£	s.	d.	£	s.	d.
		84308	14	9¾ ÷ 8731	61550	9	6¾ ÷ 7191
		6057	7	6½ ÷ 8099	6830	4	8 ÷ 8909
		6459	11	0 ÷ 9906	5335	0	1¾ ÷ 9591

REDUCTION OF WEIGHTS AND MEASURES.

AVOIRDUPOIS WEIGHT.

Reduce (a)						Reduce (b)					
tons.	cwt.	qrs.	lbs.	oz.		tons.	cwt.	qrs.	lbs.	ozs.	drs.
1	3	14	3	21	3 to ounces.	0	10	2	23	14	4 to drams.
	143	10	0	12	9 to ounces.	1	11	3	2	10	10 to drams
		0	6	2	11	13 to ounces.	15	14	3	21	0 0 to lbs.
(c)						(d)					
528592 ounces to tons, &c.						54016 drams to cwt., &c.					
713968 ounces to tons, &c.						62238 ounces to tons.					
31544 ounces to cwt., &c.						110848 drams to cwt.					

TROY WEIGHT.

Reduce (a)			
1 lb.	7 oz.	2 dwts.	14 grs. to grains.
3 lb.	8 oz.	8 dwts.	1 gr. to grains.
	1 oz.	17 dwts.	13 grs. to grains.
		(b)	
		1 lb.	4 oz. 13 dwts. 19 grs. to grains.
		17 lb.	2 oz. 3 dwts. to dwts.
			2 oz. 2 dwts. 10 grs. to grains.
(c)		(d)	
218827 grains to lbs.		5605 grains to ounces.	
47413 grains to lbs.		19917 dwts. to lbs.	
773219 grains to lbs.		17672 dwts. to lbs.	

SQUARE MEASURE.

Reduce (a)			
30 a.	0 r.	4 p.	4 yds. to sq. yards.
1889 a.	2 r.	32 p.	24 yds. to sq. yards.
	77 yds.	2 ft.	82 in. to sq. inches.
		(b)	
		91 yds.	2 ft. 119 in. to inches.
		848 a.	1 r. 2 p. 22½ yds. to yards.
		147 a.	0 r. 27 p. 19½ yds. to yards.
(c)		(d)	
37181 sq. feet to roods.		3999413 sq. yards to acres.	
647955 sq. feet to acres.		491184 sq. inches to poles.	
2010899 sq. yards to acres.		957744 sq. inches to poles.	

LONG MEASURE.

- Reduce (a)
- 4 27 m. 1 fur. 22 p. 3 yds. 1 ft. 8 in. to inches.
 11 m. 2 fur. 0 p. 0 yds. 0 ft. 2 in. to inches.
 46 m. 5 fur. 18 p. 4 yds. to inches.

(b)

19 yds. 2 ft. 4 in. to inches.
 7 p. 1 yd. 1 ft. 1 in. to inches.
 1 fur. 11 p. 3 yds. 1 in. to inches.

(c)	(d)
34023 yards to miles.	5544 inches to poles.
604857 yards to miles.	8784 inches to poles.
50721 yards to miles.	3331680 feet to miles.

DRY MEASURE.

- Reduce (a)
- 5 55484 bush. 2 pks. 1 gal. 3 qts. 1 pt. to half-pints.
 4413 qrs. 1 bush. 3 pks. 1 hf.-pt. to half-pints.
 2226 bush. 1 pk. 1 gal. 2 qts. to quarts.

(b)

3036 qrs. 2 bush. 1 gal. to gallons.
 2197 qrs. 3 bush. 3 pks. to pecks.
 357 pecks 1 qt. 1 pt. 1 hf.-pt. to half-pints.

(c)	(d)
5112 quarts to quarters.	2368 pints to bushels.
22424 pints to quarters.	608 half-pints to bushels.
2944 gallons to quarters.	7552 gallons to quarters.

WINE MEASURE.

- Reduce (a)
- 6 159264 pints to hogsheads.
 173 gals. 3 qts. 1 pt. to gills.
 10374 half-pints to gallons.

BEER MEASURE.

- (b)
- 7992 quarts to hogsheads.
 190 gals. 1 pt. to pints.
 266 half-pints to gallons.

CUBIC MEASURE.

- Reduce (c)
- 632521 c. inches to c. yards.
 7 c. yds. 4 c. ft. 1100 c. in. to in.
 8419994 c. inches to c. yards.

TIME.

- (d)
- 62780 days to years.
 7175 days to years and weeks.
 12 wks. 17 hrs. 4 min. 33 sec. to sec.

PROBLEMS.

- A. (1) Bought 17 yards at $1s. 9\frac{1}{2}d.$ per yard, $13\frac{1}{2}$ yards at $8s. 4d.$ per yard, and some books for $19s. 8d.$; what was the whole amount?
- (2) How many pounds of mutton at $6\frac{3}{4}d.$ per lb. could be bought for $\pounds 1$ $16s.$?
- (3) How many 12lb. parcels of sugar could be made up from 3 tons 16 cwt. 1 qr. 4 lbs.?
- B. (1) A bookseller bought 25 books at $1s. 1\frac{1}{2}d.$ each, and 19 at $1s. 0\frac{1}{2}d.$ each, and sold the whole for $\pounds 3$ $6s. 10d.$; what was the profit?
- (2) $\pounds 18$ $13s. 8d.$ was divided equally amongst 30 men and 29 women; how much did each receive?
- (3) If a man can walk one mile in fifteen minutes, how many miles would he walk in 5 days 1 hour 45 minutes, reckoning six hours to each day?
- C. (1) The difference between the cost of 73lbs. of mutton at $8\frac{1}{2}d.$ per lb. and 88 lbs. of beef was $\pounds 1$ $14s. 11d.$; what did I give for the beef?
- (2) A grocer paid $\pounds 7$ $7s. 7d.$ for butter which cost him $11\frac{1}{2}d.$ per lb.; how many lbs. did he buy?
- (3) How many 4 oz. packets of tea could be made up from 2 qrs. 23 lbs.?
- D. (1) Bought half a dozen chairs at $\pounds 1$ $19s. 6d.$ per dozen, 15 yards of carpet at $2s. 8\frac{1}{2}d.$ per yard, and 3 rugs at $5s. 5d.$ each; how much did I lay out?
- (2) How many books at $3s. 6d.$ each could I purchase for $\pounds 20$ $13s.$?
- (3) A greengrocer sold a ton of potatoes to 80 customers, each of whom bought the same quantity; how many lbs. did each purchase?

- E. (1) Bought 117 yards at $5\frac{1}{2}d.$ per yard, and a pair of boots for $16s. 1\frac{1}{2}d.$; what was the whole amount?
 (2) A dealer bought pigs at $15s. 3d.$ each, and in so doing spent $\pounds 83\ 2s. 3d.$; how many did he purchase?
 (3) How many nine gallon casks would be emptied in supplying 3,960 persons with a pint of beer each?
- F. (1) If I had $\pounds 1\ 16s. 4\frac{1}{2}d.$ left after purchasing 61 yards at $1s. 1\frac{1}{2}d.$ per yard, what money had I at first?
 (2) Bought 77 yards for $\pounds 51\ 19s. 6d.$; what was the price per yard?
 (3) If a grocer has 9 cwt. 24 lbs. of sugar, how many customers can he supply with 6 lbs. each?
- G. (1) A farmer bought 13 sheep at $\pounds 1\ 10s. 6d.$ each, and 11 heifers for $\pounds 3\ 17s. 9d.$ each, and paid $9s. 3d.$ for carriage by rail; how much did they cost him?
 (2) I spent $\pounds 4\ 19s. 5\frac{1}{2}d.$ in purchasing calico at $7\frac{3}{4}d.$ per yard; how many yards did I buy?
 (3) How many reams of paper would be required for 480 books if 73 sheets were used for each book?
- H. (1) Bought 101 yards at $9\frac{1}{2}d.$ per yard, and 29 collars at $2\frac{1}{2}d.$ each; what did I spend?
 (2) Divide $\pounds 44\ 19s. 8\frac{1}{2}d.$ equally amongst 151 persons.
 (3) How many quarter-pound packets of tea can be made from 1 cwt. 1 qr. 13 lbs. 4 oz.?
- I. (1) What is the difference between the cost of 95 yards at $11\frac{1}{2}d.$ per yard and 49 yards at $2s. 4d.$ per yard?
 (2) How many persons could receive $2s. 10d.$ each out of $\pounds 33\ 5s. 10d.$?
 (3) 37 dozen and four half-pint bottles of stout were bottled from a cask; how many gallons did it hold?
- J. (1) What will 113 yards at $1s. 11\frac{1}{2}d.$ per yard and 64 yards at $3\frac{3}{4}d.$ per yard amount to?
 (2) $\pounds 8\ 5s. 4\frac{1}{2}d.$ is to be divided equally amongst 13 men, 16 women, and 20 children; what will each receive?
 (3) How many persons could a grocer supply with $\frac{3}{4}$ of a lb. of soap each if he had 2 cwt. 3 qrs. 10 lbs.?

- K. (1) What is the difference between the cost of $78\frac{1}{2}$ yards at $11d.$ per yard and 88 yards at $11\frac{1}{2}d.$ per yard?
 (2) Bought 98 yards for £2 18s. $1\frac{1}{2}d.$; what did one yard cost?
 (3) How many gardens 25 square poles each could be made from a field of 2 acres 3 roods 35 poles?
- L. (1) A bookseller bought 21 books at $9\frac{1}{2}d.$ each, 13 at $11\frac{3}{4}d.$ each, and 17 at $1s. 1\frac{1}{2}d.$ each, and sold the lot at a profit of $8s. 6\frac{1}{2}d.$; what did he receive for them?
 (2) A farmer's rent at £2 1s. $6d.$ per acre amounted to £151 9s. $6d.$; how many acres had he?
 (3) 16 acres 30 poles of land were converted into 70 gardens; how many square poles did each contain?
- M. (1) Find the total cost of 75 lbs. at $1s. 11\frac{1}{2}d.$ per lb., and 179 lbs. at $9d.$ per lb.
 (2) Ninety-one oxen cost £1598 9s. $5\frac{1}{2}d.$; what was the cost of one?
 (3) How many four-ounce packets of tea could be made up from 1 qr. 15 lbs.?
- N. (1) Find the difference between the cost of 101 yards at $11\frac{3}{4}d.$ per yard and 200 yards which cost £5 18s. $2\frac{1}{2}d.$
 (2) Divide £7 7s. $7\frac{1}{2}d.$ equally amongst 73 men, 21 women, and 15 children.
 (3) 103 tons 11 cwt. of coals were divided equally amongst 109 persons; how many cwts. did each receive?
- O. (1) A dealer bought 11 tons of hay at £3 10s. per ton, and 13 tons at £3 11s. $6d.$ per ton, he sold the whole for £87 12s. $10d.$; what did he gain?
 (2) What was the cost of one ton if 121 cost £922 4s. $11\frac{1}{2}d.$?
 (3) How many persons could be supplied with $\frac{3}{4}$ lb. of tea each from 1 qr. 26 lb. 12 oz.?
- P. (1) A farmer purchased 51 sheep at £1 3s. $9d.$ each, and 37 pigs at $19s. 11\frac{1}{2}d.$ each, and sold the lot again for £101 2s. $11\frac{1}{2}d.$; what did he gain?
 (2) 79 lbs. of meat cost £2 9s. $4\frac{1}{2}d.$; what was the price per lb.?
 (3) How many dozen silver thimbles could be made from 1 lb. 4 oz. 10 dwts. of silver, if 12 grains are used for one thimble?

STANDARD V.

BILLS.

(a)				(b)			
	s.	d.			s.	d.	
1 13 yds. @	0	8½	per yd.	19 yds. @	0	7½	per yd.
112 „ @	1	2½	„	113 „ @	0	9½	„
76 „ @	3	4	„	25 „ @	2	6	„
15 „ @	1	3	per doz. yds.	82 „ @	0	2½	„

(c)			
	s.	d.	
57 yds. @	0	6½	per yd.
91 „ @	0	8½	„
19 „ @	3	11	„
37 „ @	0	6½	„

(a)				(b)			
	s.	d.			s.	d.	
2 53 yds. @	2	1	per yd.	43 lbs. @	0	11½	per lb.
17 „ @	0	9½	„	101 „ @	3	3	„
38 „ @	2	4½	„	19 „ @	0	7½	„
73 „ @	3	0	per doz. yds.	53 „ @	1	3	per doz. lbs.

(c)			
	s.	d.	
53 lbs. @	1	1½	per lb.
19 „ @	3	2	„
61 „ @	0	11½	„
72 „ @	2	3	per doz. lbs.

(a)				(b)			
	s.	d.			s.	d.	
3 31 lbs. @	0	11½	per lb.	73 lbs. @	1	3½	per lb.
103 „ @	0	10½	„	19 „ @	0	11½	„
91 „ @	1	1½	„	37 „ @	0	8½	„
23 „ @	0	1½	„	88 „ @	1	9	per doz. lbs.

(c)			
	s.	d.	
19 lbs. @	0	11½	per lb.
101 „ @	0	8½	„
91 „ @	0	9½	„
79 „ @	2	9	per doz. lbs.

(a)		(b)	
s.	d.	s.	d.
4	73 lbs. @ 0 11½ per lb.	37 lbs. @ 2 0½ per lb.	
	19 oz. @ 0 1½ per oz.	108 „ @ 0 11½ „	
	26 lbs. @ 2 0½ per lb.	95 „ @ 0 9½ „	
	29 „ @ 2 0 per doz. lb.	17 „ @ 3 9 per doz. lbs.	

(c)	
s.	d.
130 lbs. @ 2 1 per lb.	
91 „ @ 0 7½ „	
71 „ @ 0 11½ „	
23 „ @ 6 3 per doz. lbs.	

(a)		(b)	
s.	d.	s.	d.
5	13½ lbs. @ 0 11½ per lb.	17½ lbs. @ 0 9½ per lb.	
	96 „ @ 3 3 per doz. lbs.	84 „ @ 6 6 per doz. lbs.	
	1½ „ @ 1 10 per lb.	13½ „ @ 0 9 per lb.	
	91 „ @ 0 2½ „	26 „ @ 0 5½ „	

(c)	
s.	d.
23 lbs. @ 0 11½ per lb.	
1½ „ @ 1 1 „	
39½ „ @ 0 8½ „	
97 „ @ 1 3 per doz. lbs.	

(a)		(b)	
s.	d.	s.	d.
6	4½ yds. @ 2 11 per yd.	13 socks @ 0 11½ per pr.	
	1½ „ @ 15 8 „	19½ yds. @ 3 2 per yd.	
	19 socks @ 0 10½ per pr.	8½ „ @ 2 9½ „	
	53 reels @ 1 9 per doz.	28 „ @ 5 3 per doz. yds.	

(c)	
s.	d.
1½ yds. @ 11 6 per yd.	
48 „ @ 3 11 per doz. yds.	
15 socks @ 1 8 per pr.	
33 yds. @ 0 6½ per yd.	

(a)		(b)	
s.	d.	s.	d.
7	19 lbs. @ 1 8½ per lb.	17 lbs. @ 2 0½ per lb.	
	103 „ @ 3 2½ „	9½ „ @ 1 11 „	
	9½ „ @ 1 4 „	13 „ @ 2 4½ „	
	67 „ @ 2 9 per doz. lbs.	31 „ @ 6 3 per doz. lbs.	

(c)	
s.	d.
63½ yds. @ 0 11 per yd.	
19½ „ @ 1 2½ „	
15½ „ @ 1 8 „	
53 „ @ 3 0 per doz. yds.	

(a)				(b)			
		s.	d.		s.	d.	
8	7 lbs. 8 ozs.	@ 2	4 per lb.	13	ozs.	@ 3	4 per lb.
	33 ozs.	@ 0	8 „		7½ lbs.	@ 1	10 „
	5½ lbs.	@ 3	4 „		1 cwt.	@ 0	2½ „
	1 cwt.	@ 3	1 „		33½ lbs.	@ 0	0½ per oz.

(c)			
		s.	d.
	1 lb. 8 ozs.	@ 3	8 per lb.
	25½ lbs.	@ 3	2½ „
	13 lbs.	@ 6	6 per doz. lbs.
	8 lbs. 11 ozs.	@ 2	4 per lb.

(a)				(b)			
		s.	d.		£	s.	d.
9	31½ lbs.	@ 0	8 per lb.	65	sheep	@ 3	19 6 each.
	1 ton	@ 13	9½ per cwt.	115	pigs	@ 0	18 11 „
	3 doz. lbs.	@ 1	1½ per lb.	13	cows	@ 18	10 6 „
	81 lbs.	@ 2	0 per doz. lbs.	31	fowls	@ 1	0 0 per doz.

(c)			
		s.	d.
	93 gallons	@ 0	4½ per qt.
	108 bottles	@ 44	6 per doz.
	35 pints	@ 0	9 per qt.
	30 bottles	@ 3	0 per doz.

(a)				(b)			
		s.	d.			s.	d.
10	37½ yds.	@ 8	8½ per yd.	17	socks	@	1 11 per pr.
	19 doz. yds.	@ 0	2½ „	150	yds.	@ 10	for 5 0
	115 reels	@		75	packets needles		
		5 for 0	3½		@ 5 packets for	0	3½
	21 „	@ 1	9 per doz.	26	yds.	@	0 8½ per yd.

(c)			
		s.	d.
	23 lbs.	@ 0	6½ per lb.
	19 „	@ 0	7½ „
	11½ „	@ 3	8 „
	49 „	@ 3	9 per doz. lbs.

(a)				(b)			
		s.	d.			s.	d.
11	13½ tons	@ 31	6 per ton.	11½	tons	@ 35	8 per ton.
	19 cwt.	@ 40	0 „	7	cwt.	@ 100	0 „
	143 lbs.	@ 2	0 per dz. lbs.	3	qrs.	@ 0	9½ per lb.
	68 „	@ 0	6 per lb.	3	doz. lbs.	@ 0	2½ „

(c)			
		s.	d.
	71 yds.	@	0 8½ per yd.
	95 „	@	7 6 per dz. yds.
	110 pieces tape	@ 10 for 0	6½
	77 yds.	@	0 3½ per yd.

(a)				(b)			
		s.	d.		s.	d.	
12	5 $\frac{1}{2}$ tons @	71	6 per ton.	11 $\frac{1}{2}$ galls. @	3	6 per gall.	
	1 $\frac{1}{2}$ cwt. @	100	0 "	19 qts. @	1	0 "	
	84 lbs. @	8	6 per qr.	36 pts. @	0	8 per qt.	
	66 " @	0	6 $\frac{1}{2}$ per lb.	26 galls. @	0	7 per gall.	

(c)			
		s.	d.
79 yds. @	11	6	per doz. yds.
55 reels @	11	0	9 $\frac{1}{2}$
43 $\frac{1}{2}$ yds. @	8	6	per yd.
188 yds. @	1	6	per doz. yds.

(a)				(b)			
		s.	d.		s.	d.	
13	11 lbs. 8 oz. @	2	1 per lb.	17 oz. @	5	4 per lb.	
	13 oz. @	4	0 "	1 lb. 12 oz. @	0	8 "	
	1 $\frac{3}{4}$ lbs. @	0	9 "	17 $\frac{1}{2}$ lbs. @	2	2 "	
	13 " @	1	1 $\frac{3}{4}$ "	53 " @	4	6 per dz. lbs.	

(c)			
		s.	d.
19 oz. @	4	0	per lb.
16 $\frac{1}{2}$ lbs. @	2	4	"
3 oz. @	2	8	"
82 lbs. @	4	6	per doz. lbs.

(a)				(b)			
		s.	d.		£	s.	d.
14	13 $\frac{1}{2}$ tons @	22	6 per ton.	6 $\frac{1}{2}$ tons @	11	10	0 per ton.
	15 cwt. @	50	0 "	15 cwt. @	0	2	6 per qr.
	1 $\frac{1}{2}$ tons @	2	6 per cwt.	112 lbs. @	2	0	0 per ton.
	43 lbs. @	0	4 $\frac{1}{2}$ per lb.	115 " @	0	1	0 $\frac{1}{2}$ per lb.

(c)			
		s.	d.
1 $\frac{1}{2}$ oz. @	4	0	per lb.
1 $\frac{1}{2}$ lb. @	0	3	per oz.
17 lbs. @	9	0	per doz. lbs.
46 " @	0	6 $\frac{1}{2}$	per lb.

(a)				(b)			
		s.	d.		s.	d.	
15	13 yds. @	1	1 $\frac{1}{2}$ per yd.	1 $\frac{1}{2}$ lbs. @	1	8 per lb.	
	19 " @	2	4 $\frac{1}{2}$ "	105 " @	0	7 $\frac{1}{2}$ "	
	109 " @	8	6 per dz. yds.	73 " @	1	0 $\frac{1}{2}$ "	
	6 doz. yds. @	0	3 per yd.	33 $\frac{1}{2}$ " @	1	3 $\frac{1}{2}$ "	
	74 yds. @	0	1 $\frac{3}{4}$ "	37 " @	2	9 per doz. lbs.	

(c)

	s.	d.	
41 yds. @	0	3½	per yd.
112 „ @	11	0	per doz. yds.
47 „ @	2	3	„
1½ „ @	3	4	per yd.
21 „ @	2	0	per doz. yds.

(a)

(b)

	s.	d.		£	s.	d.	
16 65 cwt. @	70	0	per ton.	75 cwt. @	10	12	6 per ton.
196 lbs. @	1	7	per qr.	4½ lbs. @	0	1	8 per lb.
57 „ @	0	11½	per lb.	140 „ @	0	4	6 per dz. lbs.
50 „ @	5	0	per dz. lbs.	1 q. 2 lb. @	0	1	11 per lb.
46 „ @	0	2½	per lb.	33 lbs. @	0	0	6½ „

(c)

	s.	d.	
11½ yds. @	4	6	per doz. yds.
114 „ @	0	8½	per yd.
68 „ @	8	6	per doz. yds.
8 pieces 5 „ each @	0	2½	per yd.
43 „ @	3	0	per doz. yds.

(a)

(b)

	s.	d.		s.	d.	
17 13½ yds. @	0	10	per yd.	7½ lbs. @	2	11 per lb.
140 „ @	0	4½	„	115 „ @	5	lb. for 0 9
13 „ @	12	6	per dz. yd.	52 „ @	0	7½ „
1½ „ @	5	0	per yd.	40 ozs. @	4	8 „
91 „ @	0	2½	„	99 lbs. @	2	3 per dz. lbs.

(c)

	s.	d.	
103 yds. @	3	for 1	11½
84 „ @	0	8½	per yd.
43 „ @	2	9½	„
74 „ @	4	6	per doz. yds.
61 „ @	0	2½	per yd.

(a)

(b)

	s.	d.		s.	d.	
18 104 lbs. @	1	2	per lb.	10½ yds. @	0	11 per yd.
64 „ @	6	0	per dz. lbs.	75 „ @	12	6 per dz. yds.
23 „ @	1	2	per lb.	15 dz. yds. @	0	1½ per yd.
56 „ @	0	4½	„	75 yds. @	1	1½ „
11 lbs. 15 oz. @	0	1½	per oz.	25 „ @	2	3 per dz. yds.

(c)

	s.	d.	
83½ lbs. @	4	6	per doz. lbs.
7 „ 10 oz. @	0	5½	per oz.
38 „ @	0	4½	per lb.
13 „ @	6	6	per doz. lbs.
7 „ 7 oz. @	3	4	per lb.

(a)				(b)			
	s.	d.		£	s.	d.	
19 78½ lbs. @ 1 4 per lb.				43 pigs @ 0 12 0 each.			
18½ „ @ 0 10 „				23 sheep @ 4 8 0 „			
28 oz. @ 4 0 „				53 „ @ 2 10 6 „			
19 lbs. @ 0 7½ „				19 oxen @ 22 1 0 „			
9 lb. 8 oz. @ 0 1½ per oz.				31 pigs @ 0 18 9 „			

(c)			
	s.	d.	
41½ lbs. @ 0 11½ per lb.			
73 „ @ 0 6½ „			
110 „ @ 0 8½ „			
65 „ @ 2 6 „			
14 lbs. 3 oz. @ 1 4 „			

(a)				(b)			
	s.	d.			s.	d.	
20 15 yds. @ 2 3 per yd.				74 bottles @ 5 6 per doz.			
25 „ @ 0 6¾ „				55 „ @ 18 0 „			
42 „ @ 2 6 dz. yds. ½ doz.				@ 23 0 „			
35 „ @ 2 3 per yd.				37 bottles @ 5 6 „			
137 pieces of tape @ 0 1½ each.				85 doz. corks @ 0 3½ „			

(c)			
	s.	d.	
142 gallons @ 0 8½ per gall.			
97½ „ @ 0 6½ „			
16 pints @ 29 4 „			
99 quarts @ 0 5 per quart.			
23 pints @ 0 3½ per pint.			

(a)				(b)			
	s.	d.			s.	d.	
21 24 ozs. @ 7 6 per lb.				43 lb. @ 12 6 per doz. lbs.			
19 lbs. @ 0 6½ „				72 „ @ 0 3½ per lb.			
20 ozs. @ 2 6 „				31 „ @ 13 0 per doz. lbs.			
31 lbs. @ 0 3½ „				2 lb. 14 oz. @ 0 4½ per oz.			
14 „ @ 4 6 per dz. lbs.				49 „ @ 5 0 per lb.			

(c)			
	£	s.	d.
3¾ tons @ 1 19 8 per ton.			
468 lbs. @ 0 1 6 per doz. lbs.			
13 cwt. @ 0 1 5½ per qr.			
59 tons @ 2 16 0 per ton.			
17 cwt. @ 2 0 0 „			

(a)			(b)		
	s.	d.		s.	d.
22 40 yds. @	4	9	21 lbs. @	2	11½
22 „ @	6	9	142 „ @	0	8½
15 „ @	6	9	39½ „ @	0	3½
112 „ @	1	11½	13 „ @	0	9½
28 „ @	8	0	9½ „ @	1	0

(c)		
	s.	d.
29 oz. @	4	8
25 lbs. @	0	7½
½ cwt. @	0	3
100 lbs. @	9	6
2 lb. 9 oz. @	1	0

(a)			(b)		
	s.	d.		s.	d.
23 112 yds. @	0	11½	112 lbs. @	4	6
7½ „ @	8	5	24 oz. @	2	6
1½ „ @	18	0	52½ lbs. @	0	10
21 „ @	1	1½	75½ „ @	27	0
15 „ @	2	3	94 „ @	1	6

(c)		
	s.	d.
27½ tons @	13	6
19½ lbs. @	19	0
104 cwt. @	23	4
¾ „ @	15	4
1 cwt. 16 lbs. @	1	6

(a)			(b)		
	£	s. d.		s.	d.
24 11½ tons @	3	10 10	35½ lbs. @	11	6
5½ „ @	7	13 3	9½ „ @	1	10
105 lbs. @	0	9 0	150 „ @		
73 cwt. @	3	0 0	15 for	1	11
26 „ @	0	6 9	54 cwt. @	50	0
			26 lbs. @	0	8½

(c)		
	s.	d.
41½ yds. @	0	9
65 „ @	2	6
103 „ @	0	11½
1½ „ @	8	6
22 „ @	0	8½

PRACTICE.

1	(a)	d.	(b)	d.	(c)	d.
	166032	@ $\frac{1}{2}$ each.	174584	@ $\frac{1}{2}$ each.	157392	@ $\frac{1}{2}$ each.
	197397	" $\frac{1}{2}$ "	304302	" $\frac{1}{2}$ "	165758	" $\frac{1}{2}$ "
	347154	" $\frac{1}{2}$ "	295255	" $\frac{1}{2}$ "	404766	" $\frac{1}{2}$ "
2	(a)	d.	(b)	d.	(c)	d.
	82879	@ $\frac{1}{2}$ each.	354063	@ $\frac{1}{2}$ each.	309865	@ $\frac{1}{2}$ each.
	342101	" $\frac{1}{2}$ "	385323	" $\frac{1}{2}$ "	437575	" $\frac{1}{2}$ "
	389714	" $\frac{1}{2}$ "	384801	" $\frac{1}{2}$ "	397263	" $\frac{1}{2}$ "
3	(a)	d.	(b)	d.	(c)	d.
	228144	@ $\frac{3}{4}$ each.	148421	@ $\frac{3}{4}$ each.	55349	@ $\frac{3}{4}$ each.
	235125	" $\frac{3}{4}$ "	389313	" $\frac{3}{4}$ "	293941	" $\frac{3}{4}$ "
	397765	" $\frac{3}{4}$ "	92689	" $\frac{3}{4}$ "	613948	" $\frac{3}{4}$ "
4	(a)	d.	(b)	d.	(c)	d.
	184048	@ $\frac{1}{2}$ each.	438509	@ $\frac{1}{2}$ each.	205717	@ $\frac{3}{4}$ each.
	205125	" $\frac{1}{2}$ "	583477	" $\frac{1}{2}$ "	551621	" $\frac{3}{4}$ "
	494210	" $\frac{1}{2}$ "	679083	" $\frac{1}{2}$ "	579697	" $\frac{3}{4}$ "
5	(a)	d.	(b)	d.	(c)	d.
	368404	@ $1\frac{1}{2}$ each.	245714	@ $1\frac{1}{2}$ each.	387270	@ $1\frac{1}{2}$ each.
	261109	" $1\frac{1}{2}$ "	162827	" $1\frac{1}{2}$ "	195469	" $1\frac{1}{2}$ "
	195258	" $1\frac{1}{2}$ "	262170	" $1\frac{1}{2}$ "	358122	" $1\frac{1}{2}$ "
6	(a)	d.	(b)	d.	(c)	d.
	396135	@ $2\frac{1}{2}$ each.	332368	@ $2\frac{1}{2}$ each.	353488	@ $2\frac{1}{2}$ each.
	638751	" $2\frac{1}{2}$ "	115897	" $2\frac{1}{2}$ "	236925	" $2\frac{1}{2}$ "
	454580	" $3\frac{1}{2}$ "	135425	" $3\frac{1}{2}$ "	96834	" $3\frac{1}{2}$ "
7	(a)	d.	(b)	d.	(c)	d.
	166184	@ $4\frac{1}{2}$ each.	91887	@ $4\frac{1}{2}$ each.	113338	@ $4\frac{1}{2}$ each.
	67970	" $6\frac{1}{2}$ "	68898	" $6\frac{1}{2}$ "	100539	" $6\frac{1}{2}$ "
	51873	" $7\frac{1}{2}$ "	196261	" $7\frac{1}{2}$ "	61189	" $7\frac{1}{2}$ "

	(a)	(b)	(c)
	<i>s.</i> <i>d.</i>	<i>s.</i> <i>d.</i>	<i>s.</i> <i>d.</i>
8	262082 @ $1\frac{1}{2}$ each.	125008 @ $2\frac{1}{2}$ each.	110938 @ $4\frac{1}{2}$ each.
	203299 „ $1\frac{1}{2}$ „	106446 „ $2\frac{1}{2}$ „	54990 „ $6\frac{1}{2}$ „
	179138 „ $1\frac{1}{2}$ „	103746 „ $3\frac{1}{2}$ „	48417 „ $7\frac{1}{2}$ „

	(a)	(b)	(c)
	<i>s.</i> <i>d.</i>	<i>s.</i> <i>d.</i>	<i>s.</i> <i>d.</i>
9	23830 @ 0 $11\frac{1}{2}$ each.	78248 @ 0 $5\frac{1}{2}$ each.	695062 @ 0 $6\frac{1}{2}$ each.
	22556 „ 1 2 „	85339 „ 1 8 „	33227 „ 1 $10\frac{1}{2}$ „
	16139 „ 1 $10\frac{1}{2}$ „	34348 „ 0 $8\frac{1}{2}$ „	12203 „ 1 $10\frac{1}{2}$ „

	(a)	(b)
	<i>s.</i> <i>d.</i>	<i>s.</i> <i>d.</i>
10	114528 @ 2 $3\frac{1}{2}$ each.	12688 @ 1 $10\frac{1}{2}$ each.
	56396 „ 1 3 „	27068 „ 2 1 „
	30556 „ 2 $0\frac{3}{4}$ „	13219 „ 2 11 „

	(c)
	<i>s.</i> <i>d.</i>
	148416 @ 2 $7\frac{1}{2}$ each.
	14825 „ 2 $9\frac{1}{2}$ „
	110168 „ 3 $1\frac{1}{2}$ „

	(a)	(b)
	<i>s.</i> <i>d.</i>	<i>s.</i> <i>d.</i>
11	308426 @ 1 6 each.	187877 @ 0 $10\frac{1}{2}$ each.
	89564 „ 1 $1\frac{3}{4}$ „	519392 „ 3 $1\frac{1}{2}$ „
	11915 „ 1 $10\frac{1}{2}$ „	69952 „ 2 $0\frac{3}{4}$ „

	(c)
	<i>s.</i> <i>d.</i>
	350624 @ 2 11 each.
	13408 „ 4 7 „
	38176 „ 6 $10\frac{1}{2}$ „

	(a)	(b)
	<i>s.</i> <i>d.</i>	<i>s.</i> <i>d.</i>
12	60136 @ 4 $4\frac{1}{2}$ each.	163268 @ 4 7 each.
	582112 „ 6 3 „	189652 „ 7 6 „
	219848 „ 6 8 „	49472 „ 7 $9\frac{1}{2}$ „

	(c)
	<i>s.</i> <i>d.</i>
	20149 @ 4 $1\frac{1}{2}$ each.
	60136 „ 4 $4\frac{1}{2}$ „
	40684 „ 6 3 „

(a)			(b)		
	s.	d.		s.	d.
13 829568 @ 17	2½	each.	164342 @ 12	6	each.
96997 " 10	5	"	555064 " 18	9	"
173332 " 12	7½	"	403433 " 15	7½	"

(c)		
	s.	d.
184528 @ 10	11½	each.
574019 " 6	10½	"
857614 " 17	2½	"

(a)			(b)		
	£	s. d.		£	s. d.
14 4712 @ 1 10	7½	each.	24082 @ 0 16	0½	each.
728011 " 1 5	0	"	81364 " 1 11	3	"
68876 " 2 16	3	"	433168 " 2 2	2½	"

(c)		
	£	s. d.
18026 @ 0 15	0	each.
137752 " 1 8	1½	"
92264 " 1 1	10½	"

(a)			(b)		
	£	s. d.		£	s. d.
15 313648 @ 2 6	10½	each.	356336 @ 4 5	11½	each.
120328 " 7 11	10½	"	166424 " 5 9	4½	"
54466 " 16 17	6	"	77936 " 11 14	4½	"

(c)		
	£	s. d.
815152 @ 2 6	10½	each.
343216 " 6 6	6½	"
694024 " 3 18	1½	"

(a)			(b)		
	£	s. d.		£	s. d.
16 530224 @ 0 14	0½	each.	56251 @ 1 5	0	each.
1175401 " 0 15	7½	"	203441 " 1 10	7½	"
48613 " 0 10	5	"	1289752 " 1 8	1½	"

(c)		
	£	s. d.
374762 @ 3 2	6	each.
163078 " 5 12	6	"
27832 " 29 10	7½	"

(a)

17	5 tons	5 cwt.	2 qrs.	21 lbs.	@	£ 14	s. 0	d. 0	per ton.
	14 "	14 "	1 "	24 "	@	£ 11	s. 13	d. 4	"
				6199 "	@	£ 23	s. 6	d. 8	"

(b)

	11 tons	12 cwt.	2 qrs.	26 lbs.	@	£ 11	s. 13	d. 4	per ton.
	2 "	4 "	2 "	26 "	@	£ 16	s. 6	d. 8	"
				54120 "	@	£ 4	s. 13	d. 4	"

(c)

	2 tons	8 cwt.	1 qr.	24 lbs.	@	£ 11	s. 13	d. 4	per ton.
	6 "	4 "	3 "	0 "	@	£ 11	s. 13	d. 4	"
				9960 "	@	£ 23	s. 6	d. 8	"

(a)

18				139600 oz.	@	£ 0	s. 14	d. 0	per cwt.
	2 tons	6 cwt.	2 qrs.	14 lbs.	@	£ 0	s. 1	d. 3	per qr.
				79647 "	@	£ 2	s. 6	d. 8	per ton.

(b)

				42440 oz.	@	£ 46	s. 13	d. 4	per ton.
				5621 lbs.	@	£ 0	s. 7	d. 0	per cwt.
	30 cwt.	1 qr.	1 lb.		@	£ 0	s. 0	d. 2½	per lb.

(c)

				27944 lbs.	@	£ 5	s. 16	d. 8	per ton.
				72494 "	@	£ 3	s. 10	d. 0	"
				3304 "	@	£ 1	s. 5	d. 8	per cwt.

(a)

19	53 acres	3 roods	6 poles	@	£ 37	s. 10	d. 0	per acre.
	170 "	1 "	22 "	@	£ 18	s. 6	d. 8	"
			7999 "	@	£ 1	s. 16	d. 8	"

(b)

	25 acres	1 rood	18 poles	@	£ 81	s. 13	d. 4	per acre.
			18000 "	@	£ 9	s. 3	d. 4	"
	7 "	2 "	30 "	@	£ 3	s. 7	d. 6	per rood.

(c)

	81 acres	1 rood	22 poles	@	£ 37	s. 10	d. 0	per acre.
	28 "	0 "	38 "	@	£ 1	s. 17	d. 6	per rood.
			14294 "	@	£ 3	s. 10	d. 0	per acre.

(a)

				£	s.	d.	
20	36 acres 2 roods 14 poles	@	58	6	8		per acre.
	27332	"	@	4	3	4	"
	18 " 2 " 38	"	@	2	5	10	per rood.

(b)

				£	s.	d.	
	10 miles 4 furlongs 22 poles	@	7	0	0		per mile.
	10 " 6 " 38	"	@	0	0	11½	per pole.
	2640	"	@	1	13	4	per mile.

(c)

				£	s.	d.	
	24 miles 3 furlongs 27 poles	@	1	13	4		per mile.
	32533	"	@	7	0	0	"
	78½ " 0 " 0	"	@	0	2	7½	per furlong.

SIMPLE PROPORTION.

- A. (1) If 48 lbs. cost 17s. 6d., what will 72 lbs. cost?
 (2) If £1 8s. 5½d. be given for 14 yards, what would be the cost of 16 yards?
 (3) If 78 bushels cost 12 guineas, what will 91 bushels cost?
- B. (1) What must be given for 33 tons, if 30 tons cost £30 10s. 10d.?
 (2) If the price of £96 tons is £84, what will 104 tons cost?
 (3) If 225 bushels cost £106 4s., what will 250 bushels cost?
- C. (1) How much must be given for 78 cwt., if 65 cwt. cost £29 13s. 0½d.?
 (2) How much can be bought for £17 5s., if 17 ton 2 cwt. cost £15 10s. 6d.?
 (3) If 132 yards cost £7 8s. 7½d., how much can be bought for £8 13s. 4¾d.?
- D. (1) How many tons can be bought for 5 guineas, if 26 tons cost £4 17s. 6d.?
 (2) If 208 lbs. cost £7 12s. 8d., how many lbs. can be bought for £11 18s. 6½d.?
 (3) How many lbs. can be bought for £9 13s. 5d., if 288 lbs. cost £7 18s. 3d.?

- E. (1) If 15 tons 4 cwt. cost £16 6s. 2d., how much can be bought for £18 6s. 11½d.?
- (2) If 156 yards cost £18 10s. 6d., what will 144 yards cost?
- (3) If 21 tons 5 cwt. cost £18 2s. 8d., what will 15 tons cost?
- F. (1) What will be the cost of 12 tons 5 cwt., if £30 5s. be given for 26 tons 19 cwt.?
- (2) What will be the cost of 13 miles 4 furlongs, if 16 miles 4 furlongs cost £20 18s.?
- (3) If the railway fare for 387 miles is £2 3s. 3¼d., how many miles could I travel for 19s. 3d.?
- G. (1) If 39 tons 13 cwt. cost £28 3s. 7½d., how much can be bought for £15 3s. 5¾d.?
- (2) What will 75 lbs. of sugar cost, if 84 lb. 6 oz. cost 17s. 3d.?
- (3) The cost of 52 tons 5 cwt. was £76 0s. 9d.; what would 57 have cost?
- H. (1) If 20 tons 18 cwt. cost £19 5s. 5½d., what quantity can be purchased for £17 10s. 5d.?
- (2) What quantity can be bought for £14 0s. 7d., when £11 0s. 5½d. is given for 11 tons 9 cwt. 3. qrs. 8 lbs.?
- (3) 800 yards cost £90 3s. 7¾d.; what did 256 yards cost?
- I. (1) How many miles could I travel for 4s. 6½d., if 547½ miles cost £1 14 0¾d.?
- (2) A piece of work can be done by 20 men in 41 days 2 hours; how many days would 15 men take to do the same? (8 hrs. per day.)
- (3) How much land could be rented for £207 8s. 10d., if the rent of 98 acres is £132 0s. 2d.?
- J. (1) What will 32 tons 11 cwt. cost, if £181 8s. 6d. be given for 111 tons 4 cwt. 1 qr.?
- (2) How much land could be purchased for £5,000, at the rate of 180 acres 2 roods 2 poles for £8,750?
- (3) If 85 tons can be carried 80 miles for £3 7s. 1d., how many tons can be carried the same distance for £5 7s. 4d.?

- K. (1) If 728 lbs. of provisions last a ship's crew of 21 men 15 days, how many lbs. would 33 men require for the same time?
(2) 209 yards of carpet 29 inches wide cost £17 16s. 7½d.; what did 44 yards of it come to?
(3) The rent of 33 houses for six months amounted to £295 7s.; what was the rent of nine for the same period?
- L. (1) What will the interest be on £210 for six months, if the interest on £157 10s. for the same time is £3 17s. 4½d.?
(2) 115 passengers by an excursion train paid £36 8s. 4d.; what did 15 pay?
(3) How many books could be purchased for £7 19s. 6d., if 70 cost £3 12s. 6d.?
- M. (1) 78 trucks of coal each containing 8 tons were worth £449 11s. 8d.; how much were 72 of the same weight worth?
(2) How many miles of railway could be constructed for £857 10s., if 28 miles 10 poles cost £1,393 8s. 9d.?
(3) 463 yards of carpet 29 inches wide cost £53 10s. 1d.; how much of the same width could be bought for £13 7s. 6½d.?
- N. (1) If a farmer's profit on 197 a. 1 r. 31 p. is £263 7s. 6d., when wheat is £12 per load, how many acres would give a profit of £150 10s.?
(2) A builder pays 35 men £69 6s. as a week's wages, when they work 9 hours per day; what should they receive when they only work 8 hours per day?
(3) A flock of 185 sheep is worth £530, when mutton is selling at 10d. per lb.; what would they be worth if the price of mutton were 2d. per lb. less?
- O. (1) If 150 tons 19 cwt. 17 lbs. cost £290 3s. 9d., what will 80 tons 10 cwt. 24 lbs. cost?
(2) The cost of cleaning 22 miles 7 fur. 23 poles of streets was £35 14s. 1½d.; what length of street had a town where the expense of cleaning was £30 12s. 1½d.?
(3) A merchant bought 132 tons of coal at the rate of £154 4s. 7d. for 121 tons; what did he sell the whole for so as to make a profit of £13 14s.?

- P. (1) What will $20\frac{1}{2}$ tons cost, if 66 tons 12 cwt. 2 qrs. cost £83 4s.?
- (2) 72 yards of cloth were cut from a piece worth £24 13s. $0\frac{3}{4}$ d., and which contained 126 yards; what must the 72 yards be sold again for to realise a profit of 19s. 6d. on the outlay?
- (3) Sold 7 tons at a profit of 2 guineas on the buying price, which was at the rate of 19 tons 5 cwt. for £32 0s. 9d.; what did I receive for the 7 tons?
- Q. (1) Bought 6 pieces of meat, weighing 14 lb. 12 oz. each, at the rate of 26s. 8d. for $44\frac{1}{2}$ lbs.; what did I pay?
- (2) 54 tons were purchased at the rate of £9 15s. $10\frac{1}{2}$ d. for 15 tons 15 cwt.; for what must it be re-sold to make a profit of £1 19s. 6d.?
- (3) If 7 men working 8 hours per day can complete a work in 48 days, in how many days would 12 men working the same number of hours per day complete the same?
- R. (1) By selling 98 yards at the rate of $61\frac{1}{2}$ yards for £13 8s. $1\frac{1}{2}$ d., I lost £2 15s.; what was the prime cost?
- (2) The interest on £68 1s. 3d. for 2 years was £8 11s.; what was the interest on £60 10s. for same time?
- (3) What was the cost of 5 yards of silk, if $8\frac{3}{4}$ yards cost £1 2s. $0\frac{1}{2}$ d.?
- S. (1) What will be the cost of 2 tons 17 cwt. of hay, if 1 ton 13 cwt. 1 qr. cost £4 8s. 8d.?
- (2) Eighteen men agreed to do some work in 23 days, working 9 hours per day; three of them did not appear, in how many days ought the work to have been finished by the rest working the same number of hours per day?
- (3) If 13 acres 20 poles cost £151 6s. $7\frac{1}{2}$ d., what should be given for two fields, one of which contains 6 a. 3 r. 25 poles, the other 8 a. 15 poles?
- T. (1) 91 yards were purchased at the rate of 156 for £8 10s.; what must they be sold again for to make a profit of £1 2s. 1d.?
- (2) The interest on £165 for 11 months was £7 1s. $10\frac{1}{2}$ d.; what was the interest on £120 for the same time?
- (3) The wages of 50 men for a week when they worked 9 hours per day was £73 1s. $4\frac{1}{2}$ d.; what should they receive if they worked 8 hours per day?

- U. (1) If 30 men could do a piece of work in $82\frac{1}{2}$ hours, how many hours would 45 men take to complete the same?
- (2) The cost of boarding 30 boys for 17 weeks was £129 17s. $5\frac{1}{2}$ d.; what was the cost for 12 weeks?
- (3) What was the loss on 149 tons 14 cwt. 1 qr., which was purchased at the rate of 85 tons 11 cwt. for £155 15s., and sold again for £264 18s. $7\frac{1}{2}$ d.?
- V. (1) Eighty tons of coal cost £75 12s. 6d.; what should 70 tons be sold for so as to make a profit of £4 8s. $6\frac{1}{2}$ d. on the 70 tons?
- (2) If 176 yards 3 quarters of carpet, 39 inches wide, cost £28 16s. 4d., what did 75 yds. 3 qrs. of the same cost?
- (3) If 7 men can mow 26 a. 1 r. 30 poles in 6 days, how long would they be in mowing 11 acres 3 roods?
- W. (1) If the wages of 120 men for one week amount to £163 2s. 6d. when they work 9 hours per day, how much ought they to receive for the same time when they work 8 hours per day?
- (2) How many gallons could be purchased for £28 3s. 8d., if 267 gallons cost £10 11s. $4\frac{1}{2}$ d.?
- (3) If 413 men can dig 1102 tons 10 cwt. of gravel in 3 days, how many will be required to dig 315 tons in the same time?
- X. (1) If the interest on £687 10s. for nine months amounts to £27 3s. 7d., what ought the interest on £500 to be for the same time?
- (2) What will be the cost of 7 chests of tea, each containing 1 cwt. 3 qrs. 8 lbs., if 15 cwt. 3 qrs. 21 lbs. cost £227 8s. 9d.?
- (3) If 65 men working 10 hours per day could complete a work in 39 days 2 hours, how long would 91 men take to do it, working the same number of hours per day?
- Y. (1) What will be the cost of 152 yards if £9 2s. 3d. be given for 171 yards?
- (2) What will the carriage of 18 tons for 50 miles cost, if 15 tons 15 cwt. cost £2 0s. $4\frac{1}{2}$ d. for the same distance?
- (3) If eighteen men can earn £36 15s. in 5 days, how much ought 14 to earn in the same time?
- Z. (1) If 3 cwt. 1 qr. 21 lbs. cost £12 16s. $2\frac{1}{2}$ d., what ought to be the price of 1 cwt. 1 qr.?
- (2) What will 216 miles of road cost, if 792 miles cost £5,151 13s. 4d.?
- (3) If 37 tons 16 cwt. of coal cost £34 18s. 3d., what will be the cost of 8 waggon loads, each containing 2 tons 14 cwt.?

STANDARD VI.

VULGAR FRACTIONS.

Reduce to Improper Fractions.

	(a)	(b)	(c)	(d)
1	$3\frac{1}{2}$ $4\frac{1}{2}$ $5\frac{1}{2}$	$2\frac{7}{8}$ $4\frac{1}{8}$ $5\frac{3}{8}$	$4\frac{1}{2}$ $5\frac{1}{2}$ $7\frac{1}{2}$	$5\frac{1}{2}$ $7\frac{1}{2}$ $8\frac{1}{2}$
	$6\frac{1}{11}$ $8\frac{2}{11}$ $9\frac{3}{11}$	$8\frac{1}{2}$ $9\frac{1}{2}$ $7\frac{1}{10}$	$9\frac{1}{10}$ $8\frac{3}{8}$ $7\frac{3}{8}$	$6\frac{1}{11}$ $9\frac{1}{11}$ $10\frac{2}{11}$
	$8\frac{3}{8}$ $11\frac{1}{8}$ $11\frac{5}{8}$	$6\frac{7}{8}$ $8\frac{3}{11}$ $9\frac{4}{11}$	$8\frac{7}{8}$ $9\frac{1}{12}$ $11\frac{2}{15}$	$8\frac{5}{8}$ $9\frac{4}{11}$ $11\frac{7}{12}$
2	$21\frac{1}{2}$ $34\frac{1}{2}$ $17\frac{3}{11}$	$19\frac{5}{11}$ $17\frac{4}{11}$ $31\frac{7}{11}$	$91\frac{1}{2}$ $87\frac{1}{2}$ $18\frac{9}{18}$	$19\frac{1}{2}$ $18\frac{3}{8}$ $19\frac{9}{18}$
	$19\frac{1}{2}$ $18\frac{3}{8}$ $19\frac{9}{18}$	$81\frac{1}{2}$ $91\frac{1}{2}$ $72\frac{1}{10}$	$71\frac{1}{2}$ $93\frac{1}{2}$ $72\frac{1}{10}$	$101\frac{1}{2}$ $207\frac{1}{2}$ $312\frac{1}{2}$
				$163\frac{1}{2}$ $401\frac{1}{2}$ $191\frac{9}{18}$
		(d)		
		$17\frac{3}{11}$ $83\frac{1}{2}$ $98\frac{7}{8}$		
		$29\frac{1}{2}$ $37\frac{5}{11}$ $93\frac{3}{8}$		
		$190\frac{7}{8}$ $131\frac{1}{2}$		

Reduce to Whole or Mixed Numbers.

	(a)	(b)	(c)	(d)
1	$\frac{2}{8}$ $\frac{2}{8}$ $\frac{2}{8}$	$\frac{1}{10}$ $\frac{6}{7}$ $\frac{7}{8}$	$\frac{1}{2}$ $\frac{2}{8}$ $\frac{1}{7}$	$\frac{2}{10}$ $\frac{1}{11}$ $\frac{1}{9}$
	$\frac{1}{11}$ $\frac{2}{7}$ $\frac{1}{8}$	$\frac{1}{8}$ $\frac{3}{11}$ $\frac{1}{10}$	$\frac{1}{7}$ $\frac{1}{11}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$
	$\frac{1}{11}$ $\frac{1}{8}$ $\frac{3}{10}$	$\frac{1}{11}$ $\frac{1}{10}$ $\frac{4}{11}$	$\frac{2}{11}$ $\frac{1}{11}$ $\frac{2}{7}$	$\frac{1}{11}$ $\frac{2}{7}$ $\frac{1}{8}$
2	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$
	$\frac{2}{11}$ $\frac{1}{11}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$
	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{1}{11}$ $\frac{1}{11}$

Reduce to Simple Fractions.

	(a)	(b)	(c)	(d)
1	$\frac{2}{3}$ of $\frac{2}{3}$ of $\frac{2}{3}$	$\frac{1}{2}$ of $\frac{1}{2}$ of $\frac{2}{3}$	$\frac{1}{2}$ of $\frac{2}{3}$ of $\frac{1}{11}$ of $\frac{1}{2}$	$\frac{2}{3}$ of $\frac{2}{3}$ of $\frac{2}{3}$
	$\frac{2}{3}$ of $\frac{2}{3}$ of $\frac{2}{3}$	$\frac{1}{2}$ of $\frac{1}{2}$ of $\frac{2}{3}$	$\frac{2}{3}$ of $\frac{1}{11}$ of $\frac{1}{11}$ of $\frac{1}{11}$	$\frac{1}{11}$ of $\frac{1}{11}$ of $\frac{1}{11}$ of $\frac{1}{11}$
	$\frac{2}{3}$ of $\frac{2}{3}$ of $1\frac{1}{2}$	$\frac{1}{2}$ of $\frac{1}{2}$ of $\frac{1}{2}$ of $2\frac{1}{2}$	$\frac{1}{2}$ of $\frac{1}{11}$ of $\frac{1}{11}$ of $3\frac{1}{2}$	$\frac{1}{2}$ of $\frac{1}{11}$ of $5\frac{1}{2}$
2	(a)	(b)	(c)	(d)
	$\frac{1}{2}$ of $\frac{1}{11}$ of $7\frac{1}{2}$	$\frac{2}{3}$ of $\frac{1}{11}$ of $2\frac{1}{2}$ of 5	$\frac{1}{2}$ of $\frac{1}{11}$ of $\frac{1}{2}$ of $3\frac{1}{2}$	$8\frac{1}{2}$ of $\frac{2}{3}$ of $\frac{1}{11}$
	$\frac{1}{2}$ of $\frac{1}{11}$ of $7\frac{1}{2}$	$\frac{1}{2}$ of $\frac{1}{11}$ of $11\frac{1}{2}$	$\frac{1}{2}$ of $\frac{1}{11}$ of $\frac{2}{3}$ of 6	$\frac{1}{11}$ of $5\frac{1}{2}$ of $\frac{1}{11}$
	$\frac{1}{2}$ of $8\frac{1}{2}$ of $\frac{1}{11}$	$\frac{1}{11}$ of $5\frac{1}{2}$ of $\frac{1}{2}$	$\frac{1}{11}$ of $\frac{1}{11}$ of $\frac{1}{11}$ of 9	$8\frac{1}{2}$ of $\frac{1}{11}$ of $\frac{2}{3}$

Find the Greatest Common Measure of

	(a)	(b)	(c)	(d)
1	26 and 108	42 and 74	63 and 129	52 and 112
	75 and 190	85 and 360	65 and 830	95 and 105
	98 and 284	49 and 91	56 and 76	99 and 176

	(a)	(b)	(c)	(d)
2	117 and 507	212 and 477	208 and 442	162 and 702
	357 and 918	519 and 1908	138 and 621	693 and 1320
	442 and 612	618 and 1339	792 and 1540	504 and 1155

	(a)	(b)	(c)
3	3025 and 1430	6897 and 2343	4845 and 2210
	3465 and 5670	2366 and 3003	2926 and 2527
	7050 and 1692	22289 and 15099	44697 and 42347

(d)
4554 and 1794
2890 and 3094
18473 and 16240

Reduce to Lowest Terms.

	(a)	(b)	(c)	(d)
1	$\frac{14}{28}$ $\frac{12}{24}$ $\frac{14}{28}$	$\frac{12}{24}$ $\frac{5}{20}$ $\frac{14}{28}$	$\frac{5}{25}$ $\frac{12}{24}$ $\frac{14}{28}$	$\frac{12}{24}$ $\frac{5}{20}$ $\frac{14}{28}$
	$\frac{12}{24}$ $\frac{12}{24}$ $\frac{14}{28}$	$\frac{12}{24}$ $\frac{5}{20}$ $\frac{14}{28}$	$\frac{12}{24}$ $\frac{12}{24}$ $\frac{14}{28}$	$\frac{12}{24}$ $\frac{12}{24}$ $\frac{14}{28}$
	$\frac{5}{20}$ $\frac{12}{24}$ $\frac{14}{28}$	$\frac{12}{24}$ $\frac{12}{24}$ $\frac{14}{28}$	$\frac{12}{24}$ $\frac{12}{24}$ $\frac{14}{28}$	$\frac{12}{24}$ $\frac{12}{24}$ $\frac{14}{28}$

	(a)	(b)	(c)	(d)
2	$\frac{85}{350}$ $\frac{110}{1908}$	$\frac{110}{1908}$ $\frac{110}{1908}$	$\frac{110}{1908}$ $\frac{110}{1908}$	$\frac{110}{1908}$ $\frac{110}{1908}$
	$\frac{110}{1908}$ $\frac{110}{1908}$	$\frac{110}{1908}$ $\frac{110}{1908}$	$\frac{110}{1908}$ $\frac{110}{1908}$	$\frac{110}{1908}$ $\frac{110}{1908}$
	$\frac{110}{1908}$ $\frac{110}{1908}$	$\frac{110}{1908}$ $\frac{110}{1908}$	$\frac{110}{1908}$ $\frac{110}{1908}$	$\frac{110}{1908}$ $\frac{110}{1908}$

Find the Least Common Multiple of

	(a)	(b)	(c)	(d)
1	8 10 15 72	6 18 9 45	9 40 15 45	10 7 84 40
	7 21 32 14	11 22 10 12	12 45 16 48	11 44 33 8
	9 12 21 18	3 18 24 8	8 12 15 64	4 10 84 7

	(a)	(b)	(c)
2	102 13 78 45 20	18 72 81 93 216	72 120 180 126
	84 36 72 400 15	38 55 77 33 57	36 198 15 95 230
	95 75 15 350 33	145 95 102 90 36	105 72 325 54 180

Reduce to Fractions with Common Denominator.

(a)	(b)	(c)	(d)
$\frac{3}{8}$ $\frac{17}{8}$ $\frac{1}{4}$ $\frac{1}{10}$	$\frac{20}{8}$ $\frac{11}{8}$ $\frac{3}{8}$ $\frac{17}{8}$	$\frac{17}{10}$ $\frac{20}{10}$ $\frac{3}{10}$ $\frac{11}{10}$	$\frac{11}{10}$ $\frac{47}{10}$ $\frac{20}{10}$ $\frac{11}{10}$
$\frac{21}{8}$ $\frac{8}{8}$ $\frac{27}{8}$ $\frac{1}{4}$	$\frac{14}{8}$ $\frac{11}{8}$ $\frac{27}{8}$ $\frac{11}{8}$	$\frac{14}{10}$ $\frac{27}{10}$ $\frac{27}{10}$ $\frac{2}{10}$	$\frac{11}{10}$ $\frac{20}{10}$ $\frac{17}{10}$ $\frac{27}{10}$
$\frac{17}{8}$ $\frac{27}{8}$ $\frac{11}{8}$ $\frac{3}{8}$	$\frac{19}{8}$ $\frac{8}{8}$ $\frac{11}{8}$ $\frac{11}{8}$	$\frac{22}{10}$ $\frac{11}{10}$ $\frac{17}{10}$ $\frac{27}{10}$	$\frac{11}{10}$ $\frac{17}{10}$ $\frac{27}{10}$ $\frac{2}{10}$

ADDITION.

(a)	(b)	(c)	(d)
1 $\frac{1}{2} + \frac{1}{3} + \frac{1}{6}$	$\frac{2}{3} + \frac{1}{3} + \frac{2}{3} + \frac{1}{3}$	$\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{1}{3}$	$\frac{2}{3} + \frac{1}{3} + \frac{2}{3}$
$\frac{2}{3} + \frac{2}{3} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{3} + \frac{2}{3} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{3} + \frac{1}{3} + \frac{2}{3} + \frac{2}{3}$
$\frac{2}{3} + \frac{2}{3} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$	$\frac{2}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{3} + \frac{1}{3} + \frac{2}{3} + \frac{1}{3}$
(a)	(b)	(c)	(d)
2 $3\frac{1}{2} + 1\frac{1}{2} + 5\frac{1}{2}$	$7\frac{2}{3} + 11\frac{1}{3} + 9\frac{1}{3}$	$8\frac{1}{2} + 11\frac{1}{2} + 3\frac{1}{2}$	$7\frac{2}{3} + 8\frac{2}{3} + 9\frac{1}{3}$
$5\frac{1}{2} + \frac{1}{2} + 9\frac{1}{2}$	$11\frac{2}{3} + \frac{2}{3} + 7\frac{2}{3}$	$7\frac{2}{3} + 11\frac{1}{2} + 14\frac{1}{2}$	$9\frac{2}{3} + \frac{2}{3} + 1\frac{1}{3}$
$2\frac{1}{2} + \frac{1}{2} + 11\frac{1}{2}$	$5\frac{2}{3} + \frac{2}{3} + \frac{1}{3}$	$\frac{2}{3} + \frac{2}{3} + \frac{2}{3}$	$13\frac{2}{3} + \frac{1}{3} + \frac{2}{3}$

SUBTRACTION.

	(a)	(b)	(c)	(d)
1	$\frac{1}{2} - \frac{1}{3}$	$\frac{1}{10} - \frac{1}{10}$	$\frac{3}{8} - \frac{1}{8}$	$\frac{1}{2} - \frac{2}{8}$
	$\frac{1}{3} - \frac{1}{10}$	$\frac{8}{10} - \frac{1}{10}$	$\frac{1}{8} - \frac{1}{8}$	$\frac{1}{8} - \frac{3}{8}$
	$\frac{1}{10} - \frac{2}{8}$	$\frac{1}{10} - \frac{2}{8}$	$\frac{7}{8} - \frac{2}{8}$	$\frac{2}{8} - \frac{2}{8}$
	(a)	(b)	(c)	
2	$1\frac{2}{3} - \frac{1}{3}$	$2\frac{2}{3} - \frac{2}{3}$	$3\frac{1}{3} - \frac{2}{3}$	
	$11\frac{1}{3} - 2\frac{2}{3}$	$17\frac{1}{3} - 2\frac{2}{3}$	$8\frac{1}{3} - 7\frac{2}{3}$	
	$(\frac{2}{3} \text{ of } 1) - (\frac{1}{3} \text{ of } \frac{2}{3})$	$(\frac{2}{3} \text{ of } \frac{2}{3}) - (\frac{1}{3} \text{ of } \frac{2}{3})$	$(\frac{1}{3} \text{ of } 1\frac{1}{3}) - (\frac{1}{3} \text{ of } \frac{2}{3})$	
		(d)		
		$2\frac{2}{3} - \frac{2}{3}$		
		$1\frac{1}{3} - \frac{2}{3}$		
		$(\frac{2}{3} \text{ of } \frac{2}{3}) - (\frac{1}{3} \text{ of } \frac{2}{3})$		

MULTIPLICATION.

	(a)	(b)	(c)	(d)
1	$\frac{3}{8} \times \frac{7}{8} \times \frac{1}{2}$ $\frac{7}{8} \times \frac{3}{8} \times \frac{1}{2}$ $\frac{3}{8} \times 1\frac{1}{2} \times 3\frac{1}{2}$	$\frac{7}{8} \times \frac{3}{8} \times 1\frac{1}{2}$ $\frac{1}{2} \times 1\frac{1}{2} \times \frac{7}{8}$ $\frac{1}{2} \times 4\frac{1}{2} \times \frac{7}{8}$	$\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ $\frac{3}{8} \times \frac{1}{2} \times \frac{7}{8}$ $3\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$	$\frac{3}{8} \times 1\frac{1}{2} \times 1\frac{1}{2}$ $\frac{7}{8} \times \frac{1}{2} \times 1\frac{1}{2}$ $1\frac{1}{2} \times 5\frac{1}{2} \times 1\frac{1}{2}$
2	(a) $(2\frac{1}{2} + \frac{1}{2}) \times \frac{3}{8}$ $(\frac{1}{2} - \frac{1}{2}) \times \frac{7}{8}$ $(1\frac{1}{2} - 1) \times 1\frac{1}{2}$	(b) $\frac{3}{8} \times (\frac{1}{2} + 1\frac{1}{2})$ $(\frac{3}{8} - \frac{1}{2}) \times \frac{7}{8}$ $\frac{3}{8}$ of $\frac{1}{2} \times (\frac{7}{8} - 1\frac{1}{2})$	(c) $(1\frac{1}{2} + \frac{1}{2}) \times 1\frac{1}{2}$ $\frac{7}{8} \times (\frac{3}{8} - \frac{1}{2})$ $(\frac{1}{2} + \frac{1}{2}) \times (\frac{1}{2} - \frac{1}{2})$	(d) $(\frac{7}{8} + 1\frac{1}{2}) \times \frac{1}{2}$ $\frac{1}{2} \times (\frac{1}{2} - 1\frac{1}{2})$ $(1\frac{1}{2} + \frac{3}{8}) \times (\frac{3}{8} - \frac{3}{8})$

DIVISION.

	(a)	(b)	(c)	(d)
1	$\frac{1}{2} \div \frac{1}{2}$ $5\frac{1}{2} \div 2\frac{7}{8}$ $1\frac{1}{2} \div 8\frac{1}{2}$	$\frac{1}{2} \div 1\frac{1}{2}$ $1\frac{1}{2} \div 3\frac{1}{2}$ $17\frac{1}{2} \div 7\frac{1}{2}$	$\frac{7}{8} \div 1\frac{1}{2}$ $1\frac{1}{2} \div 2\frac{1}{2}$ $1\frac{1}{2} \div 2\frac{1}{2}$	$\frac{1}{2} \div 1\frac{1}{2}$ $1\frac{1}{2} \div 1\frac{1}{2}$ $7\frac{1}{2} \div 2\frac{1}{2}$
2	(a) $\frac{1}{2}$ of $\frac{3}{8} \div 1\frac{7}{8}$ $(\frac{1}{2} + \frac{3}{8}) \div 1\frac{7}{8}$ $(1\frac{1}{2} - \frac{3}{8}) \div \frac{3}{8}$ of $1\frac{7}{8}$	(b) $(1\frac{1}{2} + \frac{3}{8}) \div \frac{3}{8}$ $(\frac{7}{8} - 1\frac{1}{2}) \div 1\frac{1}{2}$ $(1\frac{1}{2} - \frac{1}{2}) \div 1\frac{7}{8}$	(c) $1\frac{1}{2} \div (\frac{1}{2} + \frac{3}{8})$ $(1\frac{1}{2} - \frac{3}{8}) \div 1\frac{1}{2}$ $(\frac{3}{8} - \frac{3}{8}) \div 1\frac{1}{2}$	(d) $1\frac{1}{2} \div (1\frac{1}{2} - \frac{3}{8})$ $7\frac{1}{2} \div (\frac{1}{2} + 1\frac{7}{8})$ $(\frac{3}{8} - 1\frac{1}{2}) \div 3\frac{1}{2}$

Simplify,—1

	(a)	(b)	(c)	(d)
	$\frac{1}{2} \quad 2\frac{1}{2} \quad \frac{7}{11}$	$\frac{3}{8} \quad 3\frac{1}{2} \quad \frac{8}{5}$	$\frac{3}{8} \quad 1\frac{1}{2} \quad \frac{9}{3\frac{1}{2}}$	$\frac{3}{8} \quad 7\frac{1}{2} \quad \frac{11}{4\frac{1}{2}}$
	$\frac{3}{2\frac{1}{2}}$ of $\left\{ \frac{3}{5} \div \frac{15}{16} \right\}$	$\left\{ \frac{3\frac{1}{2}}{7} \times \frac{1}{3} \right\} \div \frac{4\frac{1}{2}}{5}$	$\frac{4\frac{1}{2}}{2\frac{1}{2}} \div \frac{1}{2}$ of $\frac{3\frac{1}{2}}{7}$	$\frac{7}{3\frac{1}{2}} \div \frac{3}{2}$ of $\frac{7}{3\frac{1}{2}}$
	$\frac{11\frac{1}{2}}{7\frac{1}{2} - 3\frac{1}{2}}$	$\frac{\frac{3}{8} + 3\frac{1}{2}}{\frac{1}{2} + \frac{1}{2} + 1\frac{1}{2}}$	$\frac{\frac{3}{8} - \frac{3}{8}}{\frac{3}{2}$ of $\frac{3}{8}$ of $4\frac{1}{2}}$	$\frac{1\frac{1}{2} - \frac{7}{8}}{\frac{3}{2} + \frac{1}{2}$ of $\frac{1}{2}$

2	$\begin{array}{r} (a) \\ 6 + \frac{7}{\frac{1}{2} - \frac{3}{5}} \\ \frac{5\frac{1}{2} \text{ of } \frac{7}{5}}{\frac{1}{2} + \frac{1}{3} + \frac{1}{4}} \\ \hline 19 \\ \frac{1}{10} \text{ of } \left\{ \frac{3\frac{1}{2}}{\frac{1}{2} + \frac{1}{3} + \frac{1}{10}} \right\} \end{array}$	$\begin{array}{r} (b) \\ 8 - \frac{\frac{1}{2}}{\frac{3}{4} + \frac{1}{10}} \\ \frac{\frac{1}{2} \text{ of } 9\frac{1}{2}}{\frac{1}{2} - \frac{1}{3}} \\ \hline 100 \\ \frac{3}{8} + \frac{1}{6} + 3\frac{1}{2} \end{array}$	$\begin{array}{r} (c) \\ 11 + \frac{\frac{1}{2} - \frac{1}{3}}{\frac{3}{5} \text{ of } \frac{1}{11}} \\ \frac{3\frac{1}{2} \text{ of } \frac{3\frac{1}{2}}{\frac{1}{2} + \frac{9}{11}}}{\frac{8}{3 + \frac{4}{2\frac{1}{2}}}} \end{array}$	$\begin{array}{r} (d) \\ 13 - \frac{3\frac{1}{2}}{\frac{1}{7} + \frac{1}{8} + \frac{3}{20}} \\ \frac{\frac{1}{11} \text{ of } \left\{ \frac{\frac{1}{2} + \frac{3}{5}}{\frac{1}{10} + \frac{1}{4}} \right\}}{\frac{20}{\frac{7}{8} - \frac{2}{3\frac{1}{2}}}} \end{array}$
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REDUCTION.

Find the value of,—

- | | |
|---|---|
| <p>(a)</p> <p>1 £$\frac{7}{12}$ £$\frac{3}{8}$ $\frac{3}{8}$s.
 $\frac{2}{3}$ of $\frac{3}{4}$ of £7 10s.
 $\frac{3}{8}$ of a ton; $\frac{1}{12}$ of a cwt.</p> <p>(c)</p> <p>$\frac{1}{15}$s. £$\frac{7}{8}$ £$\frac{9}{10}$ $\frac{7}{8}$s.
 $\frac{3}{8}$ of $\frac{1}{2}$ of $\frac{1}{2}$ of £7
 $\frac{3}{4}$ of acre $\frac{1}{3}$ of a ton.</p> <p>(b)</p> <p>£$\frac{3}{8}$ £$\frac{9}{10}$ $\frac{9}{10}$s.
 $\frac{1}{10}$ of $\frac{2}{3}$ of $\frac{3}{4}$ of £20
 $\frac{1}{12}$ of 3 cwt.; $\frac{1}{8}$ of 3 cwt.</p> <p>(d)</p> <p>£$\frac{7}{12}$ £$\frac{3}{8}$ $\frac{1}{12}$s.
 $\frac{3}{8}$ of $\frac{1}{2}$ of £16 2s. 8d.
 $\frac{1}{8}$ of $\frac{3}{4}$ of 3 cwt.</p> | <p>(a)</p> <p>2 $\frac{3}{8}$s. + £$\frac{1}{2}$ + $\frac{1}{8}$ of 5s.
 $\frac{1}{2}$s of a ton + $\frac{3}{4}$ cwt.
 $\frac{3}{8}$ of $\frac{1}{2}$ of 10 days.</p> <p>(c)</p> <p>$\frac{3}{8}$ of 7s. 6d. + $\frac{1}{4}$ of £10
 $\frac{1}{2}$ cwt. + $\frac{1}{4}$ qr. + 13 lbs.
 $\frac{3}{8}$ of $\frac{3}{4}$ of $\frac{1}{2}$ of 8 tons.</p> <p>(b)</p> <p>£$\frac{7}{12}$ + $\frac{1}{4}$ of 10s. + 6d.
 $\frac{1}{4}$ cwt. + $\frac{1}{4}$ of 3 qrs.
 $\frac{1}{12}$ of $\frac{3}{4}$ of 18 acres.</p> <p>(d)</p> <p>$\frac{3}{8}$ of 5s. 3d. + $\frac{1}{8}$ of 10s.
 $\frac{1}{2}$ of ton + $\frac{1}{2}$ of 5 qrs.
 $\frac{3}{8}$ of $\frac{1}{2}$ of 13 tons 10 cwt.</p> |
|---|---|

Reduce,—

- | | |
|---|--|
| <p>(a)</p> <p>3 5s. 8d. to the frac. of a £
 $7\frac{1}{2}$d. " " 2s. 6d.
 £1 11s. 6d. " " £5.</p> <p>(c)</p> <p>8s. to the frac. of £1 10s.
 3s. $1\frac{1}{2}$d. " " 7s. 6d.
 £2 17s. $1\frac{1}{2}$d. " " £5.</p> | <p>(b)</p> <p>3s. 4d. to the frac. of £2.
 $9\frac{1}{2}$d. " " 5s.
 £1 9s. $4\frac{1}{2}$d. " " £7 10s.</p> |
|---|--|

- (a)
- 4 1 ton 5 cwt. to the frac. of 4 tons.
 3 r. 20 p. „ „ 1 acre.
 7 fur. 30 p. „ „ 2 miles.
- (b)
- 13 cwt. 2 qrs. to the frac. of 1 ton.
 1 r. 18 p. „ „ 1 acre.
 45 poles „ „ 1 mile.
- (c)
- 1 ton 5 cwt. to the frac. of 3 tons.
 3 r. 35 p. „ „ 2 acres.
 3 fur. 30 p. „ „ 3 miles.
- (a)
- 5 $\frac{3}{4}$ of 5 cwt. to the frac. of 1 ton.
 $\frac{2}{3}$ of a bush. „ „ 1 qr.
 $8\frac{1}{2}$ of 5s. „ „ $\frac{7}{12}$ of a £
- (b)
- $\frac{1}{3}$ of $\frac{1}{4}$ of 3 cwt. to the frac. of 1 ton.
 $\frac{3}{4}$ of $\frac{2}{15}$ of an hr. „ „ 1 day.
 $\frac{7}{10}$ of $2\frac{1}{2}$ £ „ „ £5.
- (c)
- $\frac{3}{4}$ of $\frac{1}{12}$ of cwt. to the frac. of $\frac{1}{2}$ ton.
 $\frac{3}{8}$ of $\frac{1}{4}$ of 504 yds. „ „ 1 mile.
 $\frac{7}{12}$ of $\frac{3}{4}$ guinea „ „ £ $\frac{7}{8}$.
-

MISCELLANEOUS EXAMPLES.

- A. (1) How much would be left of 120 yards of silk, if one person bought $\frac{1}{3}$ and another $\frac{1}{4}$ of the remainder?
- (2) How often is $\frac{3}{8}$ of a crown contained in $\frac{1}{4}$ of a £?
- (3) What must be added to $10\frac{1}{10}$ to make it $15\frac{1}{2}$?
- B. (1) What is a man's weekly wages, if after spending $\frac{1}{3}$ for meat, $\frac{2}{5}$ for grocery, &c., and $\frac{1}{10}$ for rent, he has 5s. left?
- (2) Find the difference between $\frac{1}{4}$ of £5 and $\frac{3}{4}$ of $\frac{2}{3}$ of £2 10s.
- (3) $\frac{3}{4}$ of $\frac{1}{12}$ of a number is 48; what is the number?

- C. (1) A school of six classes has 40 children in the first class, 35 in the second, 44 in the third, 30 in the fourth, 25 in the fifth, and 45 in the sixth; what fraction of the whole school does each class contain?
- (2) What number divided by $\frac{1}{12}$ will give $7\frac{1}{2}$ as quotient?
- (3) How often is $\frac{3}{4}$ of $\frac{7}{12}$ of £5 contained in £7.
- D. (1) If a man can do $\frac{3}{4}$ of a piece of work in seven days, how long will he be doing the whole?
- (2) A boy spent $\frac{1}{3}$ of his money for books, $\frac{1}{4}$ for schooling, and had 1s. 1d. left; how much had he at first?
- (3) How long would two men take to dig a piece of ground, if one of them could do it alone in five days, and the other in six days?
- E. (1) *A* and *B* working together could do some work in five days which *A* alone could do in eight days; how long would *B* take to do it?
- (2) Simplify, $\frac{2\frac{1}{2} + 11\frac{1}{2}}{\frac{3}{4} \text{ of } \frac{7}{8}} \div \frac{\frac{3}{4}}{3\frac{1}{2}}$
- (3) A man invested $\frac{3}{4}$ of his money in houses, $\frac{1}{8}$ in land, and then has £200 left; what is he worth?
- F. (1) A cistern can be filled by one pipe in five hours, and emptied by another in eight hours; if both pipes are open together how long will the cistern take to fill?
- (2) How often is $\frac{3}{4}$ of 3 cwt. contained in one ton?
- (3) *A*, *B* and *C* can mow a field in four days, *A* could do half of it in five days, *B* could do the whole of it in 12 days; how long would *C* take to do it?
- G. (1) What fraction multiplied by $9\frac{1}{10}$ will give as product $72\frac{1}{10}$?
- (2) £350 was divided amongst *A*, *B*, *C*, and *D*, *A* received $\frac{1}{3}$, *B* $\frac{1}{4}$, *C* $\frac{2}{5}$ of $\frac{1}{3}$, and *D* the remainder; what was *D*'s share?
- (3) Simplify, $(\frac{1}{3} + \frac{1}{4}) \div \frac{3\frac{1}{2} \text{ of } \frac{3}{4}}{\frac{1}{12}}$

- H. (1) How many suits, each containing $5\frac{1}{2}$ yds., could be cut from a piece of cloth measuring $64\frac{1}{2}$ yds.?
- (2) Find the sum of money of which $5s. 6d.$ is $\frac{1}{10}$.
- (3) A pile is driven $\frac{1}{4}$ of its length into the mud, $\frac{1}{2}$ is in the water and six feet is above water; what is its length?
- I. (1) A man spends $\frac{2}{3}$ of his yearly income in housekeeping, &c., gives $\frac{1}{10}$ in charity, and puts by £50; what is his income?
- (2) How long will A , B and C take to build a wall, which A alone could build in seven days, B in eight days, and C in 10 days?
- (3) Simplify, $\frac{\frac{1}{2} + \frac{1}{3} + \frac{1}{6}}{13\frac{1}{2} - \frac{1}{25}}$
- J. (1) $\frac{2}{3}$ of $\frac{1}{2}$ of a business is worth £150; what is the whole worth?
- (2) $\frac{2}{3}$ of a man's wages are spent in grocery, $\frac{1}{3}$ in meat, and $\frac{1}{10}$ for firing, &c., he then has $3s. 6d.$ left; what does he get per week?
- (3) If land is worth £45 $\frac{1}{2}$ per acre, what would be the cost of $35\frac{1}{2}$ acres?
- K. (1) Take $\frac{1}{11}$ of $\frac{1}{11}$ of 11 guineas from $\frac{1}{10}$ of 3 ten pound notes.
- (2) Simplify, $\frac{1\frac{1}{2} - \frac{1}{3}}{7\frac{1}{2} - 1\frac{1}{2}} \times \frac{4\frac{1}{2}}{1\frac{1}{2}}$
- (3) A and B together can do a piece of work in 14 days, C could do the same alone in 20 days, and A in 25 days; how long would B take to do it by himself? and how long would the three together take to do it?
-

DECIMALS.

Express as Vulgar Fractions in Lowest Terms.

(a)	(b)	(c)	(d)
.5; .05; .25	.8; .04; .01	.4; .12; .075	.6; .34; .014
.012; .0512	.075; .008	.045; .0435	.105; .95; .045
3.5; 14.05125	11.25; 13.0125	8.025; 23.05	3.325; 93.005

Express as Decimals.

(a)	(b)	(c)	(d)
$\frac{1}{2}$ $\frac{3}{8}$ $\frac{5}{8}$	$\frac{1}{10}$ $\frac{3}{4}$ $\frac{1}{10}$	$\frac{7}{8}$ $\frac{3}{4}$ $\frac{3}{8}$	$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{10}$
$\frac{3}{4}$ $\frac{1}{8}$ $\frac{3}{8}$	$\frac{1}{10}$ $\frac{1}{10}$ $\frac{7}{8}$	$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$	$\frac{3}{8}$ $\frac{1}{10}$ $\frac{1}{10}$
$2\frac{1}{10}$ $4\frac{1}{10}$ $1\frac{1}{8}$	$3\frac{1}{10}$ $9\frac{1}{8}$ $5\frac{1}{10}$	$7\frac{3}{10}$ $8\frac{1}{10}$ $3\frac{3}{10}$	$9\frac{1}{10}$ $1\frac{7}{8}$ $3\frac{9}{10}$

ADDITION.

	(a)	(b)	(c)	(d)
1	.8075	75.005	.0325	.7025
	.008	.075	35.008	60.075
	2.57	8.954	.875	.905
	13.809	.0375	5.913	8.075
	.0585	35.5025	36.0575	34.7025
	<hr/>	<hr/>	<hr/>	<hr/>
2	(a)	(b)	(c)	(d)
	70.058	35.075	75.008	75.0135
	19.5725	.085	108.015	.07235
	.0835	19.5235	.0735	18.05
	25.758	.0725	9.50125	.0725
	.0725	84.9155	.00325	103.51235
	<hr/>	<hr/>	<hr/>	<hr/>

- 3** (a) Add together,—five tenths; 74 thousandths; one and seven tenths; 59 and 35 ten thousandths; 15 and 75 hundredths.
- (b) Find the sum of,—one and 19 hundredths; 301 and 5 thousandths; four and nine tenths; 17 and one hundredth; one and three ten thousandths.
- (c) Add together,—11 and 75 hundredths; 154 ten thousandths; 39 thousandths; five and 35 millionths; 75 hundred thousandths.

SUBTRACTION.

	(a)	(b)	(c)	(d)
1	20·045 1·109	4·532 ·9135	8·005 ·7345	20·0325 1·12195
2	70·0135 8·3275	100·015 1·09825	20·0175 ·90975	45·0305 ·33465

- 3 (a) Take 75 and 85 hundred thousandths from 100 and five tenths.
 (b) From 75 and 53 hundred thousandths, take 19 and 95 ten thousandths.
 (c) Take three and 175 ten thousandths from 30 and five hundredths.

MULTIPLICATION.

	(a)	(b)	(c)	(d)
1	735 × ·5 3056 × ·25 80·51 × ·05	8235 × ·8 6035 × ·35 703·5 × ·75	3015 × ·6 4721 × ·25 205·75 × ·45	8103 × ·4 9131 × ·75 90·5 × ·125
2	47·085 × 1·05 1·0525 × 7·25 ·705 × ·0025	71·05 × 35·25 42·05 × 4·035 ·0025 × ·0025	40·15 × 4·035 75·015 × 12·08 ·725 × ·0075	75·25 × 1·35 4·015 × 1·025 ·0735 × ·0084

DIVISION.

	(a)	(b)	(c)	(d)
1	7·1035 ÷ 5 25·345 ÷ ·5 305·05 ÷ ·025	2·30525 ÷ 4 18·015 ÷ ·8 7·0325 ÷ ·025	3·4325 ÷ 8 70·025 ÷ ·4 8·025 ÷ ·075	7·3015 ÷ 4 301·25 ÷ ·5 8·205 ÷ ·725
2	·4275 ÷ ·075 1·075 ÷ 2·05 2435·7 ÷ ·075	·0195 ÷ ·25 3·5725 ÷ 9·025 102·75 ÷ ·0275	·0275 ÷ ·125 1·749 ÷ 3·0325 6·0135 ÷ 8·025	·7325 ÷ ·025 1·8325 ÷ 3·005 3·75 ÷ 2·0245

RECURRING DECIMALS.

—o—

Express as Vulgar Fractions in Lowest Terms.

(a)	(b)	(c)	(d)
$\cdot\dot{3}$ $\cdot\dot{2}\dot{7}$ $\cdot\dot{3}\dot{3}$	$\cdot\dot{1}\dot{8}$ $\cdot\dot{1}\dot{5}$ $\cdot\dot{2}\dot{4}$	$\cdot\dot{3}\dot{9}$ $\cdot\dot{1}\dot{8}$ $\cdot\dot{5}\dot{4}$	$\cdot\dot{1}\dot{2}$ $\cdot\dot{2}\dot{1}$ $\cdot\dot{7}\dot{2}$
$\cdot\dot{1}\dot{3}$ $\cdot\dot{2}\dot{7}$ $\cdot\dot{3}\dot{6}$	$\cdot\dot{1}\dot{5}$ $\cdot\dot{3}\dot{7}$ $\cdot\dot{1}\dot{3}$	$\cdot\dot{1}\dot{7}$ $\cdot\dot{3}\dot{8}$ $\cdot\dot{2}\dot{8}$	$\cdot\dot{3}\dot{7}$ $\cdot\dot{7}\dot{1}$ $\cdot\dot{8}\dot{3}$
$2\cdot5\dot{1}\dot{3}$ $5\cdot1\dot{2}\dot{7}$ $6\cdot1\dot{0}\dot{8}$	$5\cdot1\dot{4}\dot{7}$	$\cdot20\dot{4}\dot{3}$ $\cdot41\dot{5}\dot{7}$	$\cdot31\dot{3}\dot{2}$ $\cdot01\dot{5}\dot{7}$

Express as Decimals.

(a)	(b)	(c)	(d)
$\frac{1}{3}$ $\frac{2}{3}$ $\frac{3}{3}$ $\frac{4}{3}$	$\frac{3}{3}$ $\frac{4}{3}$ $\frac{1}{3}$ $\frac{1}{3}$	$\frac{1}{11}$ $\frac{2}{11}$ $\frac{3}{11}$ $\frac{10}{11}$	$\frac{1}{3}$ $\frac{2}{3}$ $\frac{1}{3}$ $\frac{1}{3}$
$\frac{1}{18}$ $\frac{1}{18}$ $\frac{1}{6}$ $\frac{1}{18}$	$\frac{1}{18}$ $\frac{1}{18}$ $\frac{1}{6}$	$\frac{1}{18}$ $\frac{1}{18}$ $\frac{1}{6}$ $\frac{1}{18}$	$\frac{1}{18}$ $\frac{1}{18}$ $\frac{1}{6}$ $\frac{1}{18}$
$\frac{1}{9}$ $\frac{1}{9}$ $\frac{1}{9}$ $\frac{1}{9}$	$\frac{1}{9}$ $\frac{1}{9}$ $\frac{1}{9}$	$\frac{1}{18}$ $\frac{1}{18}$ $\frac{1}{18}$	$\frac{1}{18}$ $\frac{1}{18}$ $\frac{1}{18}$ $\frac{1}{18}$

Simplify,—

(a)	(b)	(c)	(d)
$\cdot\dot{3} \times \cdot\dot{0}\dot{1} \div \cdot\dot{6}$	$\cdot\dot{1}\dot{7} \times \cdot\dot{9} + \cdot\dot{5}$	$\cdot\dot{7} \times \cdot\dot{0}\dot{5} \div \cdot\dot{0}\dot{2}$	$\cdot\dot{8} \times \cdot\dot{0}\dot{8} \div \cdot\dot{8}\dot{3}$
$\cdot\dot{3}\dot{9} \div \cdot\dot{2}\dot{8} \times \cdot\dot{1}\dot{3}$	$\cdot\dot{1} \div \cdot\dot{3}\dot{3} \times \cdot\dot{1}\dot{5}$	$\cdot\dot{1}\dot{7} \div \cdot\dot{7}\dot{1} \times \cdot\dot{5}\dot{7}$	$\cdot\dot{6} \div \cdot\dot{0}\dot{1}\dot{3} \times \cdot\dot{1}\dot{5}\dot{1}$
$\cdot\dot{3} + 2\cdot\dot{1}\dot{7}$	$8\cdot\dot{3} - 5\cdot\dot{1}$	$\cdot\dot{1}\dot{2} \times \cdot\dot{3}\dot{9}$	$\cdot\dot{7} + 1\cdot\dot{2}\dot{1}$
<u>1·1</u>	<u>·5 + ·5</u>	<u>·6 - ·5</u>	<u>2·2</u>

REDUCTION.

—

Find the value of,—

	(a)	(b)
1	£·5 £·05 £·75	£·35 £·25 £·125
	·0925s.	1·075 of £2
	35·75 of 5s.	3·725 of 10s.
	(c)	(d)
	£·45 £·175 £·35	£·275 £1·05 £2·575
	£·07125	3·045 of 10s.
	3·1375 of 12s.	1·375 of a guinea.
	(a)	(b)
2	·05 of a ton.	·2135 of a cwt.
	7·5 of 3 qrs.	3·145 of 1 t. 5 cwt.
	5·25 of a yd.	6·75 of 14 lbs.
		3·536 of a mile.
		2·75 of an acre.

Reduce,—

(a)		(b)	
3	18s. 4½d. to decimal of a £	23s. 6d. to decimal of 2 guineas.	
	3 c. 3 qr. „ „ a ton.	2 lb. 8 oz. „ „ 1 qr.	
	110 lbs. „ „ 5 cwt.	3 qts. 1 pt. „ „ 1 gallon.	
(c)			
	17s. 5½d. to decimal of 30s.		
	2 f. 35 p. „ „ 1 mile.		
	3 hrs. 25 min. „ „ 3 days.		

MISCELLANEOUS EXERCISES.

- A. (1) If $\cdot 5$ of a yard cost $\cdot 35$ of a shilling, what did 5 yards cost?
 (2) Multiply 25·05 by $\cdot 075$, and divide the product by $\cdot 025$.
 (3) What will 17·5 tons of coal cost at 35·75s. per ton?
- B. (1) If A can do $\cdot 25$ of a piece of work in one day, and B can do the whole in five days, how long will A and B working together take to complete the same?
 (2) What will 171 yards cost at 9·075d. per yard?
 (3) If $\cdot 05$ of 3 tons cost £3·75, what quantity could be bought for £12·25?
- C. (1) How much will a person lose who purchases 45 yards of cloth @ 5·25s. per yd., if the yard measure is $\cdot 75$ of an inch short?
 (2) Find the difference between $\cdot 25$ of a ton and $\cdot 325$ of a cwt.
 (3) How much will $\cdot 5$ ton of sugar cost @ 2·25d. per lb.?
- D. (1) A boy spends $\cdot 25$ of his money on oranges, $\cdot 45$ on apples, and has one shilling left; how much had he at first?
 (2) What will a merchant gain who purchases a ton of sugar for £·9125 per cwt. and sells it @ 3·25d. per lb.?
 (3) From $\frac{1}{3}$ of $\cdot 4344$ of a ton, take $\cdot 075$ of a cwt.

- E. (1) A man's income is £55·325 per quarter, and he spends £15·375 per month; what does he save in a year?
- (2) *A* can do some work in 7·25 days, *B* can do the same in eight days; how long would they take to complete it working together?
- (3) Find the cost of 40·05 acres @ £18·075 per rood.
- F. (1) ·375 of a ship was worth £3,000; what was the whole value?
- (2) If ·425 of a lb. of tea is worth 2s. 1½*d.*, what will 3·25 lbs. cost?
- (3) Simplify, $\frac{9\cdot075 \times \cdot0725}{1\cdot05 - \cdot465}$
- G. (1) If ·25 of a sum of money belongs to *A*, and the remainder to *B*, and the difference between the two shares is £2 10s., what was the sum?
- (2) Simplify, $\frac{25\cdot05 \times 31\cdot75}{\cdot0913 - \cdot0188}$
- (3) How many yards of carpet, 1·25 yds. wide, will cover a room 19·4 feet long by 17·5 feet wide?
- H. (1) Reduce 4s. 8½*d.* to the decimal of a £, and find how many times ·25 of 5s. is contained in £·75.
- (2) How much money am I worth if I have £400 in the bank, ·25 in gas shares, and ·55 invested in a trading company?
- (3) What will be the cost of ·25 of 12 tons of coal if 1·3 of a cwt. cost 2·25 shillings?

COMPOUND PROPORTION.

- A. (1) If 27 acres can be mown by 7 men in 3 days, how many acres can 15 men mow in 4 days?
- (2) What will be the cost of keeping 35 boys for 10 months, if 12 cost £25 for two months?
- (3) How many men will be required to build a wall 100 yds. long in 5 days, if 30 men can build 50 yards in 10 days?

- B. (1) If 50 yards of carpet, 3 quarters of a yd. wide, cost £7 10s., how much would 75 yards cost half-a-yard wide?
- (2) If 12 men can finish a piece of work in 10 days when they work 8 hrs. per day, how many hours per day must 15 men work to do the same in 8 days?
- (3) What will be the cost of 35 sides of bacon, each weighing 75 lbs., if 3 sides each weighing 80 lbs. cost £6 10s.?
- C. (1) If 10 workmen earn £13 12s. per week when they work 8 hours per day, how much would 8 earn working 9 hours per day?
- (2) How much will 10 loads of coal cost, each weighing 1 ton 5 cwt., if 4 loads weighing 18 cwt. each cost £3 10s.?
- (3) How many yards of tramway could 80 men lay in 20 days, if 75 men could put down 100 yards in 30 days?
- D. (1) How many yards of carpet, 3 qrs. wide, will be required to carpet 5 rooms, if 3 such rooms take 75 yards which is one yard in width?
- (2) If the interest on £125 for 6 months is £3 10s., how much would produce £5 10s. in 8 months?
- (3) A man can perform a journey of 100 miles in 3 days, walking 8 hours per day; how many miles could he travel in 6 days walking 6 hours per day?
- E. (1) The interest on £70 for 13 months was £4; how much would £15 produce in 14 years at the same rate?
- (2) If 120 sheep can be purchased for £250 when mutton is selling at $7\frac{1}{2}d.$ per lb., what would 150 be worth if the price of mutton were $9\frac{1}{2}d.$ per lb.?
- (3) If I gain £15 by selling 30 tons of coal at 30s. per ton, what ought I to gain by selling 25 tons at £2 per ton.?
- F. (1) What would the carriage of 5 tons 10 cwt. cost for 50 miles, if 80 tons can be carried 20 miles for £2 10s.?
- (2) If 15,000 bricks are required to build a wall 300 yds. long and 5 feet high, how many will be required to build two walls 4 feet high, one of them 150 yards and the other 250 yards in length?
- (3) What should a 6d. loaf weigh when wheat is 50s. per qr., if a 4-lb. loaf cost 8d. when wheat is £3 per qr.?

- G. (1) How much meat will be required to give 12 oz. each per day to 150 men for a certain time, if 150 lbs. will serve 20 men for the same time when they eat 1 lb. per day each?
- (2) If 25 horses can be kept 14 days for £10, how much will 45 horses cost for 63 days?
- (3) If by using 2 bushels of malt I can brew 36 gallons of beer at a cost of 3d. per quart, how many gallons ought I to get from 8 bushels so as to cost 4d. per quart?
- H. (1) Fifteen men can build 130 yards of wall in 5 days, working 8 hours per day; how many yards could 10 men build in 12 days working 9 hours per day?
- (2) If 35 tons of iron are required to construct 500 rails 8 yards long and 4 inches square, how many tons would be required for 650 rails 12 yards long and 3 in. square?
- (3) What will be the cost of bread for 400 men for 3 months when bread is 1s. per gallon, if the cost for 25 men for 8 months when bread is 1s. 3d. per gallon is £40?
- I. (1) Forty men are employed to dig a ditch 100 yds. long and 3 feet wide in 5 days; how many extra men will be required to make it 300 yards long and 4 feet wide in 10 days?
- (2) 55 acres can be mown by 11 men in 3 days, working 12 hours per day; how many acres could 15 men mow in 4 days working 10 hours per day?
- (3) If £150 produce £15 interest in 2 years when money is worth 5 per cent., what will be the interest on £310 for 3 years when money is worth 4 per cent.?
- J. (1) How many yards of wall 6 feet high could be built by 25 men in 12 days, if 7 men can build 100 yards 5 feet high in 14 days?
- (2) If 16 cows produce £2 profit per week when butter is 1s. per lb., what will be realised from 45 cows in 3 weeks when butter is 1s. 3d. per lb.?
- (3) A certain sum of money will purchase 120 yards of carpet 37 inches wide at 4s. 6d. per yard; how many yards 40 inches wide could be bought at 5s. per yard for same money?

- K. (1) Twenty-four men can cut up 250 feet of plank in 2 days, working 9 hours per day; how many feet could 78 men cut up in 3 days working 6 hours per day?
- (2) If 35 men working 10 hours per day complete a work in 15 days, how long will 45 men take to do the same working 8 hours per day?
- (3) What will be the interest on £375 for 12 years, if £25 is produced by £150 in three years?
- L. (1) Twelve men can put up 100 yards of wall in 10 days, working 8 hrs. per day; how many yards could 10 men build in 15 days working 10 hours per day?
- (2) How many lbs. of meat will be sufficient to feed 100 men for 25 days, if 80 men require 200 lbs. for 5 days?
- (3) If 7 men can earn £15 in 6 days working 9 hours per day, how many £ will 21 men earn in 14 days working 8 hours per day?
- M. (1) 24 acres can be mown by 4 men in 8 days, working 8 hours per day; how many acres could be mown in 14 days by 3 men working 10 hrs. per day?
- (2) How much will a room 20 feet long and 15 feet wide cost for carpet, if another room 15 feet long and 14 feet wide cost £4 10s.?
- (3) If 40 horses cost £50 for six weeks' keep when hay is £4 per ton, how much would 50 horses cost for 10 wks. when hay is £3 10s. per ton?
- N. (1) £120 will provide 200 persons with provisions sufficient for 5 days; how much will be required to provide 150 persons with sufficient for 8 days?
- (2) 24 acres can be mown by 6 men in 3 days, working 9 hours per day; how long will 5 men take to mow 180 acres working 10 hours per day?
- (3) If 35 trucks of coal each weighing 8 tons cost £440, what will be the cost of 55 trucks each weighing 6 tons?

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